# HITACHI

PA | No. 0172

## SERVICE MANUAL

50HDT50M/55M: PT3-H Chassis
AVC51: AVC3-U Chassis

NTSC | PT3-H AVC3-U Chassis

R/C: CLU-5726TSI (50HDT50/55)
R/C: CLU-120S (50HDT55)

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**CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that the service technician read the “IMPORTANT SAFETY INSTRUCTIONS” in this service manual.

**SAFETY NOTICE**
**USE ISOLATION TRANSFORMER WHEN SERVICING**

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Important Safety Instructions” in this Service Manual.

**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT**

# PLASMA DISPLAY PANEL


**MARCH 2003** **HHEA-MANUFACTURING DIVISION**

## SAFETY PRECAUTIONS

**NOTICE:** Comply with all cautions and safety-related notes located on or inside the cover case and on the chassis or plasma module.

**WARNING:** Since the chassis of the AVC unit and Plasma Panel unit is connected to both sides of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

1. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.

2. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, insulating cover-shields, and isolation resistors, capacitors, etc.

3. When service is required, observe the original lead dress.

4. Always use manufacturer's replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer's. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of over heating.

5. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

**Leakage Current Cold Check**

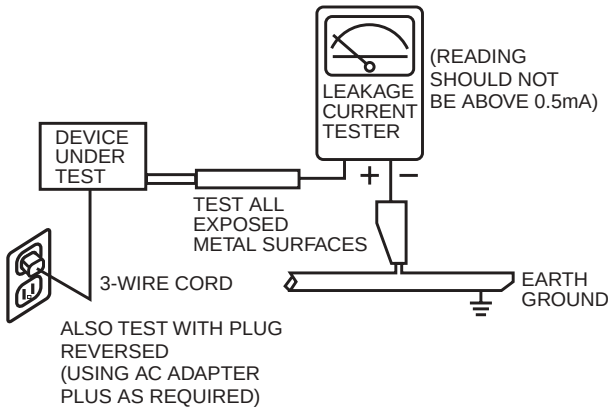
With the AC plug removed from the 120V AC 60Hz source, place a jumper across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground.

Using an insulation tester (DC500V), connect one of its leads to the AC plug jumper and touch with the other lead each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a resistor reading over 4MΩ. Any resistance value below this range indicates an abnormality which requires corrective action. An exposed metal part not having a return path to the chassis will indicate an open circuit.

**Leakage Current Hot Check**

This check must be done considering the AVC or the PDP monitor as one instrument each.

With any of the instruments completely reassembled (being the instrument either the AVC center or the PDP monitor), plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with the American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances. In the case of the PDP monitor set the AC switch first in the ON position and then in the OFF position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.




**AC LEAKAGE TEST**

**ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.**

## PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified with a ⚠ mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI-recommended replacement component, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manuals may be obtained at a nominal charge from HITACHI Sales Corporation.

AVC51 - Audio Video Control Unit

1. Follow the general caution recommendations from “Safety precautions” section.

50HDT50M/55M - Plasma Monitor Unit

1. Follow the general caution recommendations from “Safety precautions” section.
2. Since the Panel module and front filter are made of glass, sufficient care shall be taken when handling the broken module and filter in order to avoid injury.
3. If necessary to replace Panel module, this work must be started after the panel module and the AC/DC Power supply becomes sufficiently cool.
4. Special care must be taken with the display area to avoid damaging its surface.
5. The Panel Module shall not be touched with bare hands to protect its surface from stains.
6. It is recommended to use clean soft gloves during the replacing work of the Panel module in order to protect, not only the display area of the panel module but also the serviceman.
7. The Chip Tube of the panel module (located upper left of the back of the panel module) and flexible cables connecting Panel glasses to the drive circuitry Printed Wiring Boards (P.W.B.) are very weak, so sufficient care must be taken to prevent breaking or cutting any of these. If the Chip Tube breaks the panel module will never work, replacement for a new plasma panel module will be needed.
8. Signal, power supply P.W.B.’s and PDP driving circuits P.W.B.’s are assembled on the rear side of the PDP module, take special care with this fragile circuitry; particularly, Flexible Printed Circuits bonded to surrounding edges of the glass panel. They are not strong enough to withstand harsh outer mechanical forces. Avoid touching the flexible printed circuits by not only your hands, but also tools, chassis, or any other object. Extreme bending of the connectors must be avoided too. In case the flexible printed circuits are damaged, the corresponding addressed portions of the screen will not be lit and exchange of a glass panel will be required.

PDP Module Handling

When there is need to replace a broken PDP module which is the displaying device from the Plasma monitor unit, consider the following:

1. When carrying the PDP module, two persons should stand at both shorter-edge sides of the glass-panel and transport it with their palms. Avoid touching the Flexible Printed Circuits or the chip tube on the corner of the glass-panel. Handle only by the surface of the glass panel. In case of some PDP modules, electrode repair is done by connecting between regular terminal with Cu tape and Cu wire. Please do not hook and/or damage this repair line. If it is damaged, the module will not function unless the glass-panel is exchanged with a new glass-panel.
2. When carrying PDP module, watch surrounding objects, such as tables, and also do not carry it alone since it may be dangerous and it will be damaged due to excessive stress to the module (glass-panel).
3. Please do not stand the module with the edge of the glass-panel on the table since this might result in damage to the glass-panel and/or flexible printed circuits due to excessive stress to the module (glass-panel).

**WARNING**
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering make sure you are in a well ventilated area in order to avoid inhalation of any smoke or fumes released.

**SAFETY NOTICE**
**USE ISOLATION TRANSFORMER**
**WHEN SERVICING**

**POWER SOURCE**

This television receiver is designed to operate on 120 Volts/60Hz, AC house current. Insert the power cord into a 120 Volts/60Hz outlet.

**NEVER CONNECT THE TV TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT.**

# SERVICING PRECAUTIONS

**CAUTION:** Before servicing instruments covered by this service data and its supplements and addenda, read and follow the "Important Safety Instructions" on page 3 of this publication.

**NOTE:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

**General Servicing Guidelines**

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

      **CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this instrument or any of its assemblies.

3. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
   **CAUTION:** This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket of voltage interlocks with which instruments covered by this service data might be equipped.

5. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

6. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

7. Use with this instrument only the test fixtures specified in this service data.
   **CAUTION:** Do not connect the test fixture ground strap to any heatsink in this instrument.

**Electrostatically Sensitive (ES) Devices**

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or desolder ES devices.

4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   **CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

**General Soldering Guidelines**

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.

2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well-tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following desoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

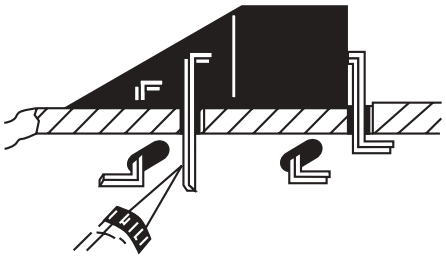
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.

6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.

   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      **CAUTION:** Work quickly to avoid overheating the circuit board printed foil or components.

   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



**Use Soldering Iron to Pry Leads**

**IC Removal/Replacement**

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

**Replacement**

1. Carefully insert the replacement IC in the circuit board.

2. Carefully bend each IC lead against the circuit foil pad and solder it.

3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

**"Small-signal" Discrete Transistor Removal/Replacement**

1. Remove the defective transistor by clipping its leads as close as possible to the component body.

2. Bend into a "U" shape the end of each of the three leads remaining on the circuit board.

3. Bend into a "U" shape the replacement transistor leads.

4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

**Power Output Transistor Devices Removal/Replacements**

1. Heat and remove all solder from around the transistor leads.

2. Remove the heatsink mounting screw (if so equipped).

3. Carefully remove the transistor from the circuit board.

4. Insert new transistor in circuit board.

5. Solder each transistor lead, and clip off excess lead.

6. Replace heatsink.

**Diode Removal/Replacement**

1. Remove defective diode by clipping its leads as close as possible to diode body.

2. Bend the two remaining leads perpendicularly to the circuit board.

3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.

4. Securely crimp each connection and solder it.

5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

**Fuses and Conventional Resistor Removal/Replacement**

1. Clip each fuse or resistor lead at top of circuit board hollow stake.

2. Securely crimp leads of replacement component around stake 1/8 inch from top.

3. Solder the connections.
   **CAUTION:** Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

**Circuit Board Foil Repair**

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

In Critical Copper Pattern Areas

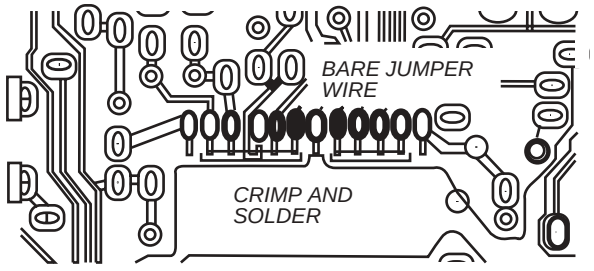
High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.



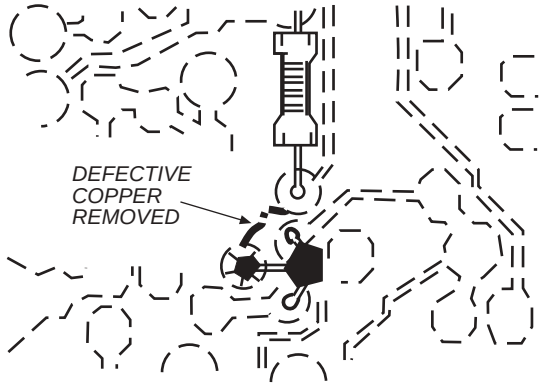

**Install Jumper Wire and Solder**

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.

4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.




**Insulated Jumper Wire**

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.

3. Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   **CAUTION:** Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

**NOTE:** ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

## Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used. .

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6KΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

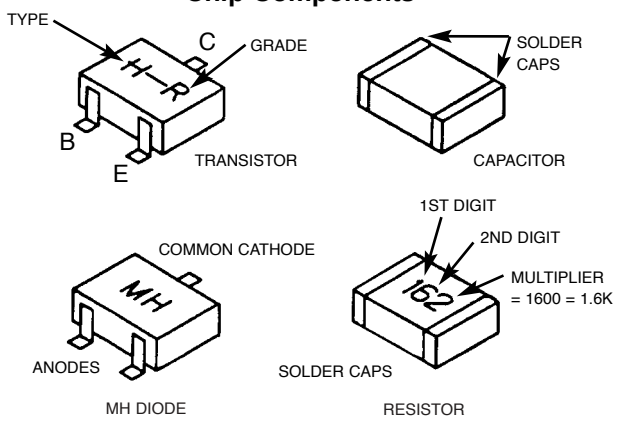
## Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

## Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

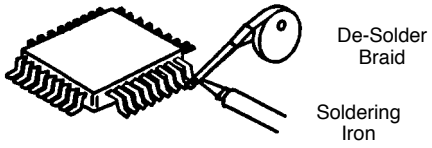
**Chip Components**



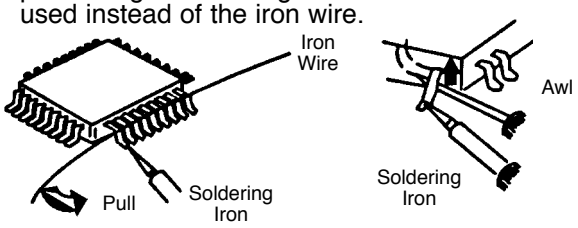

## How to Replace Flat-IC —Required Tools—

- Soldering iron
- iron wire or small awl
- De-solder braids
- Magnifier

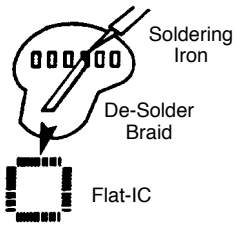
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



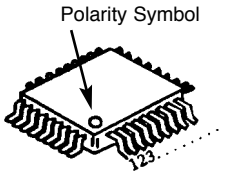

2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



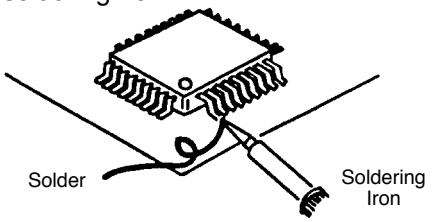

3. Remove the solder from all of the pads of the Fiat-IC by using a de-solder braid.



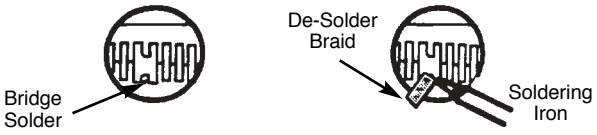

4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.




5. Solder all pins to the soldering pads using a fine tipped soldering iron.




6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



# AGENCY REGULATORY INFORMATION

## Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

## Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi Home Electronics (America), Inc. may void the user's warranty.

## Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

## Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this declaration, contact:

Hitachi America, LTD.
Home Electronics Division
900 Hitachi Way
Chula Vista, CA 91914
Tel. 1-800-448-2244 (1-800-HITACHI)
ATTN: CUSTOMER RELATIONS

## ACKNOWLEDGMENTS AND TRADEMARKS

This Plasma Television complies with VESA DDC2B specifications, Plug & Play is a system with computer, peripherals (including monitors) and operating system. It works when the monitor is connected to a DDC ready computer that is running an operating system software that is capable for the plug & play.

When a Plug and Play PC is powered on, it sends a command to the Monitor requesting identification. The Monitor sends back a string of data including its characteristics.

## TRADEMARK ACKNOWLEDGMENT

DDC™ is a trademark of Video Electronics Standard Association.
IBM PC/AT and VGA are registered trademarkds of International Business Machines Corporation of the U.S.A.
Apple and Macintosh are registered trademarks of Apple Computer, Inc.
VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

**Notes on Closed Caption:**
This Plasma Television receiver will display television closed captioning, ( CC or ), in accordance with paragraph 15.119 of the FCC rules.

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## INTRODUCTION

The 50HDT50 and 50HDT55 are a Plasma Television set; They are constituted by the combination of two main parts, an AUDIO VIDEO CONTROL Center, and the Plasma Display monitor.
Each part has a model name and a chassis name:

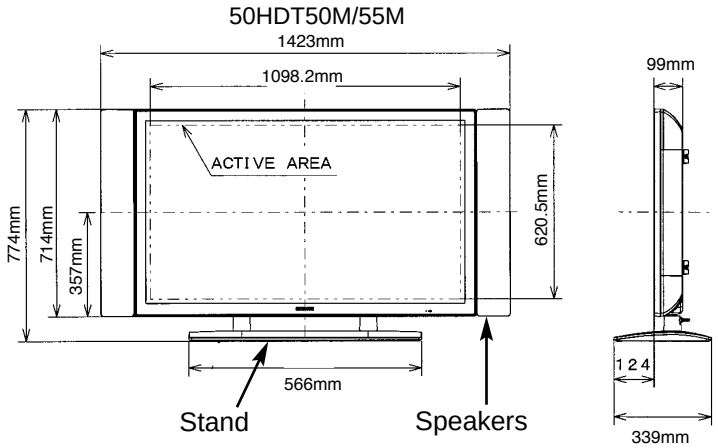
| Part | Model Name | Chassis Name |
|---|---|---|
| Audio Video Control Center | AVC51 | AVC3-U |
| 50” Plasma Display Monitor | 50HDT50M/55M | PT3-H |

The AVC center is a box that controls most of the user functions of the complete TV set and conditions the signal before it arrives to the monitors.

The 50” monitor contains the displaying device, which is the plasma display panel module, and the driving circuitry, which receives the signal from the AVC center and after processing, delivers the image to the display module.

This HITACHI Service Manual is intended for the qualified service personnel and it contains the necessary information for troubleshooting the Plasma television set in case of malfunction.

**DIMENSIONS:**



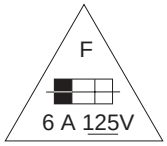

**POWER RATINGS:**

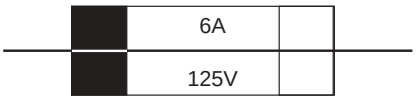
| No. | Model Name | Indicated Value: Max Rating (W) | Indicated Value: Max Rating (A) | Indicated Value: Average Rating (W) | PST(W) (W) | Chassis |
|---|---|---|---|---|---|---|
| 1 | 50HDT50M/55M | 354 | 3.5 | 262 | 1.3 | PT3-H |
| 2 | AVC51 | 30 | 0.5 | 26 | 2.7 | AVC3-U |

## CIRCUIT PROTECTION

**CAUTION:** Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:




**“RISK OF FIRE - REPLACE FUSE AS MARKED”**

The rating of fuse F901 is 6A - 125V.
Replace with the same type fuse for continued protection against fire.

**PDP MONITOR SPECIFICATIONS**

| Item | Model Name | 50HDT50M | 50HDT55M |
|---|---|---|---|
| Destination | | U.S.A. / CANADA | U.S.A. / CANADA |
| Exterior | Cabinet Dimensions: (Main Body) (Speaker & stand included) | 1,218x714x104mm<br><br>1,423x774x339mm | 1,218x714x104mm<br><br>1,423x774x339mm |
| | Cabinet Color | Bluish Black/Bright Silver | Bright Silver |
| | Stand | Included | Included |
| | Weight (Main Body)<br>(Speaker & Stand included)<br>(Main Body:Packed) | 40.0 kg typ.<br>49.0 kg typ.<br><br>49.5 kg typ. (Packed) | 40.0 kg typ.<br>49.0 kg typ<br><br>49.5 kg typ. (Packed) |
| | Screen Size | 1,098.2x620.5mm<br>(50”: 16x9) | 1,098.2x620.5mm<br>(50”: 16x9) |
| Display Panel | Resolution | 1,280x768 pixels | 1,280x768 pixels |
| | Dot Pitch (H) | 0.858mm | 0.858mm |
| | Dot Pitch (V) | 0.808mm | 0.808mm |
| | Viewing Angle (H) | ±80˚ (Brightness: 1/10) | ±80˚ (Brightness: 1/10) |
| | Viewing Angle (V) | ±80˚ (Brightness: 1/10) | ±80˚ (Brightness: 1/10) |
| Front Filter | Surface Finishing | Low Reflection Coating | Low Reflection Coating |
| Brightness | Peak Brightness (1% window) | Over 200 cd/m$^2$ (When VIDEO, Day, Color temperature ‘HIGH’ Input Signal Amplitude 100% is set)<br>Over 200 cd/m$^2$ (When RGB is set) | Over 200 cd/m$^2$ (When VIDEO, Day, Color temperature ‘HIGH’ Input Signal Amplitude 100% is set)<br>Over 200 cd/m$^2$ (When RGB is set) |
| | All White Pattern | Over 50 cd/m$^2$ | Over 50 cd/m$^2$ |
| Contrast | Contrast ratio | 700:1 (typ.)(4% white window) | 700:1 (typ.) (4% white window) |
| Color Reproduction | Color Reproduction | Over 16.7 million colors | Over 16.7 million colors |
| Audio Output | Audio Output | 12w + 12w (8Ω) | 12w + 12w (8Ω) |
| Panel Operation | Main Power Switch | PUSH (LOCK) 1 Switch | PUSH (LOCK) 1 Switch |
| | Sub Power Switch | PUSH (NON-LOCK) 1 Switch | PUSH (NON-LOCK) 1 Switch |
| Input Terminal | Video/Audio Input | 24 pin DVI connector 1 system<br>8 pin Mini DIN connector 1 | 24 pin DVI connector 1 system<br>8 pin Mini DIN connector 1 |
| Output Terminal | Audio Line Output | Sub Woofer Output 1 system | Sub Woofer Output 1 system |
| | Speaker Output | One system each for L and R | One system each for L and R |
| Power Supply Source | Connector | 3 Polarity Receptacle | 3 Polarity Receptacle |
| | Input Voltage | Single Phase AC108~132V,60Hz | Single Phase AC108~132V,60Hz |
| Guaranteed Environment Condition | Temp. (Operating) | 5˚C~35˚C (41˚F~95˚F) | 5˚C~35˚C (41˚F~95˚F) |
| | Temperature (Stored) | -15˚C~60˚C(5˚F~140˚F) | -15˚C~60˚C(5˚F~140˚F) |
| | Humidity (Operating) | 20~80%RH (Non-condensing) | 20~80%RH (Non-condensing) |
| | Humidity (Stored) | 20~90%RH (Non-condensing) | 20~90%RH (Non-condensing) |
| | Atmospheric Pressure (Operating) | 800 to 1114hPa<br>(altitude: 1888m to -757m, 6194’ to -2484’) | 800 to 1114hPa<br>(altitude: 1888m to -757m, 6194’ to -2484’) |
| | Atmospheric Pressure (Stored) | 300 to 1114hPa<br>(altitude: 9727m to -757m, 31,912’ to -2484’) | 300 to 1114hPa<br>(altitude: 9727m to -757m, 31,912’ to -2484’) |

AVC SPECIFICATIONS (1 of 2)

| Model | _ | | | AVC51 | |
|---|---|---|---|---|---|
| Dimension | Size | | 1 | 430mmx85mmx240mm | |
| | Weight | | 2 | 3.5 kg | |
| A/C Input Voltage | Input AC Voltage | | 3 | AC108 ~132(with 3 Plug AC Power Cord inlet type ,1.8m length | |
| | Input AC Frequency | | 4 | 60Hz | |
| | Power Consumption | | 5 | 30w, Standby less than 2.7w | |
| Front End | Front End | | 6 | ENGE6106DR/ENG36614GR | |
| | Available Channel | | 7 | 2 ~13 | VHF |
| | | | 8 | 14 ~ 69 | UHF |
| | | | 9 | A-5 ~ A-1, A ~ W, W+1 ~ W+84 | CATV |
| Input Signal | Video Signal | | 10 | NTSC | |
| | Component Signal | | 11 | 480i/p,1080I, 720p | |
| | PC Signal | | 12 | VGA ~ SXGA (fH:24KHz-109KHz,fV:50Hz-85Hz) | |
| | DVI Signal | | 13 | 480i,480p,720p,1080i(EIA-861A) | |
| Picture | Y/C separation | | 14 | 3D Y/C (ON fix) | |
| | Line Correction | | 15 | No | |
| | I-P Conversion | | 16 | Motion Adaptive & Multi Angle Interpolation | FC4 |
| | Picture Mode | | 17 | (Day, Night) | |
| | Display Mode | | 18 | 1024i (50inch:768p) | Video Signal |
| | | | 19 | 1024i (50inch:768p) | Component Signal |
| | | | 20 | 1024i (50inch:768p) | PinP Mode |
| | | | 21 | 1024i (50inch:768p) | PC Signal |
| Sound Enhancement | | | 22 | TruBass (High, Medium, Low, Off) Matrix Surround (On/Off) | |
| Adjustment | Settings for Video Signal | | 22 | Picture, Contrast, Brightness, Color, Tint ,Sharpness, W/B Temp, Black Enhancement ,Contrast Mode, Color Management/Decoding ,Auto Color, Noise Reduction, Auto Movie Mode. ,Black Side Panel | |
| | Settings for Video Signal | | 23 | Contrast, Brightness, W/B Temp, Enhancer, Input Level, Black Side Panel. | |
| | Settings for PC Raster | | 24 | Hor/Vert Raster Position, Horizontal Clock ,Clock Phase. | |
| | Settings for Sound | | 25 | Vol, Balance, Bass, Treble, Source, Intenal Speaker, Auto Noise Cancel, Perfect Volume, Mute. | |
| General Function | PinP Mode | Split | 26 | With(All video signal combinations, except PC signal) | |
| | | Strobe | 27 | With(4Pix:only ANT A/B,Video,480i) | |
| | | Surf | 28 | With(SURF12:only ANT A/B) | |
| | | POP | 29 | With(Main: ANT A/B,Video,480i Sub: ANT A/B,Video,480i,1080i) | |
| | | PIP | 30 | With(Main:1080i Sub: ANT A/B,Video,480i,1080i) | |
| | | PC-Window | 31 | With(Main: RGB Sub: All video signal, except PC signal) | |
| | Wide Mode | | 32 | 6Mode (only NTSC,480i,480p) | |
| | Aspect Selection | Video | 33 | 4:3 Standard/16:9 Standard/ 4:3 Expanded/Zoom 1/Zoom 2/16:9 Zoom | |
| | | PC | 34 | Full/Normal/Real (Real only VGA/SVGA/XGA mode) | |
| | Film Theater | | 35 | With (Auto Movie Mode: On/Off) | |
| | Color Temperature | | 36 | 4Mode ; High/Medium/Standard/Black & White | |
| | Input Signal Selection | | 37 | RGB,VIDEO1/2/3/4/5, ANT A, ANT B | |

## AVC SPECIFICATIONS (2 of 2)

| Model | | | AVC51 | |
|---|---|---|---|---|
| General Function | Gamma Correction | 38 | Only for Service Menu | |
| | Picture Enhancer | 39 | With (only RGB) | |
| | Input Signal Identification | 40 | Yes | |
| | Audio Special Mode | 41 | No | |
| | Power Save Mode | 42 | With (RGB In) | LED Normal: Green<br>Power Save: Orange<br>Stand by: Red |
| | | 43 | With (On/Off) (Video In) | |
| | Burning Protection | 44 | With (Raster Shift:3 option, All White Pattern) | |
| | Language (VIDEO/PC) | 45 | ENGLISH,FRANCAIS,ESPANOL | |
| R/C Handset | | 46<br>46 | RML-CLU-5726TSI<br>CLU-120S (for 55HDT55) | ALPS<br>UEI |
| In/Out Terminal | Input (RGB) | 47 | 1 Input: Mini Dsub-15PX1 | |
| | Composite Video Input VIDEO2_5 | 48 | 4 Input: RCA pin 4<br>(1 Input Front Panel) | |
| | S-In (S 2 Terminal) Video/S are common selector, priority is S-In . | 49 | 3 Input: Mini Din-4P<br>(1 S-In on Front Panel) | |
| | Component Signal Input (VIDEO1,VIDEO2) | 50 | 2 Input: RCA pin 6(Y of VIDEO2 is common input for Composite-In) | |
| | Digital Input(DVI+HDCP) | 51 | 1 Input: DVI-D(24P)X1 (Selected by component Video1,Digital input priority) | |
| | Audio In L / R L ch:mono | 52 | 6 Input; RCA pin 12<br>(RGB:1 Input,Video:5 Input) | |
| | CATV In | 53 | 1 Input (VIDEO2 LINK) | |
| | Video Control Terminal (BS) | 54 | No | |
| | U/V Ant Input | 55 | ANT-A IN,ANT-B IN ,TO CONV. | |
| | BS-IF Input | 56 | No | |
| | Video Monitor Out Terminal | 57 | 1 Output: RCA Pin x 1 | |
| | Audio Output Terminal | 58 | 1 Output L/R RCA Pin x 2 | |
| | Audio Monitor Out Terminal | 59 | 1 Output L/R RCA Pin x 2 | |
| | IR-OUTPUT | 60 | 2 Terminal | |
| | Headphone Terminal | 61 | 1 Terminal (only for AVC) | |
| | PDP Interface Terminal | 62 | DVI-D(26p)+Mini 8PIN-DIN | |
| Front Key | Main Power Switch | 63 | No | |
| | Power On/off Switch | 64 | With (link to PDP) | |
| | IR Receiving Unit | 65 | With (link to PDP) | |
| | Power Indicator LED | 66 | With | |
| | Menu Control Key | 67 | With (Channel U/D, Vol U/D, A/V Input Select, Menu Select) | |

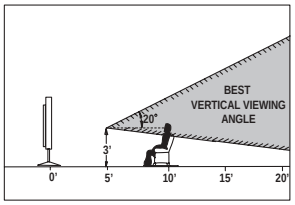
# BASIC SETUP & OPERATION

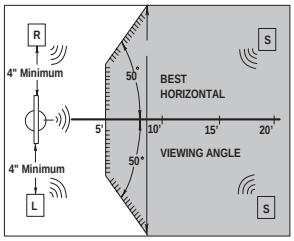
**VIEWING**

The major benefit of the HITACHI Plasma Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing. The best picture is seen by sitting directly in front of the TV and about 8 to 18 feet from the screen.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.



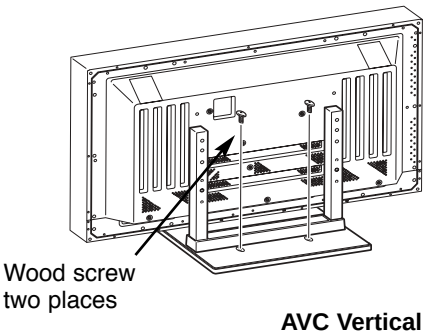

**IMPORTANT NOTES**

| No. | Items | Notes |
|---|---|---|
| 1 | Arching sound from plasma display monitor's panel. | A buzzing sound might be heard when the plasma display monitor is turned on in a very quiet room. This is due to the plasma panel drive circuit when it is functioning. This arching sound is normal and it is not a malfunction. |
| 2 | Interference for infrared equipment. | Some infrared rays are emitted from the plasma display monitor's panel that might affect other infrared controlling equipment. |
| 3 | Bright and dark spots | High-precision technology is used to manufacture the plasma display panel; But in some cases, there are minor defects in some parts of the screen. Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc. Some pixels will always be on or always off. Please note that this is not a malfunction. |
| 4 | Picture Image (Spectrum) | When receving still picture signals, (e.g. channel number indication or clock indication) for a while, you can see image-like when the picture varied. This is not a defect. |
| 5 | Display panel surface temperature is too high | The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction. The Plasma TV surface temperature is higher than a Cathode-ray-tube. |
| 6 | Plasma Surface | The plasma panel is made from glass. Heavy shock on the front panel might damage it. |
| 7 | Transportation | When the PDP monitor is transported horizontally, the glass panel has the possibility of being broken or increasing the picture defects. At the time of transportation, horizontal style is prohibited. More-over, please treat the plasma panel with great care because of a precision apparatus. Please instruct transporters so that it should be put into the packing box at the time of shipment.(There is a possibility that breakage of the panel or defects will increase.) Rough transportation might cause damage to the panel and pixel failure. |
| 8 | Image retention | The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images. For 50" only, brightness will decrease automatically during still and slightly moving pictures. This is not a failure. This is a special feature to avoid image retention. Tips to prevent such image retention are:<br>- Do not display images having sharp brightness differences or hi-contrast images, such as monochrome characters and graphic patterns, for long.<br>- Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function.<br>- Turn down the contrast and brightness controls. |
| 9 | Luminosity and contrast | PDP television has luminosity and low contrast compared with CRT television. |
| 10 | Granular spots | When a screen is seen at point-blank range, a random fine grain may be visible to a dark part. |
| 11 | Disturbance to video apparatus | If an apparatus (VCR, etc.) antenna line is arranged near the monitor, the image may shake, or disturbance may be received. |
| 12 | Lip Sync | There is some time lag betweeen the picture and the sound. You can see lip motion that is delayed compared to the sound. |
| 13 | About the use environment of PDP television (temperature) | Electric discharge/luminescence characteristic of the PDP panel also changes with peripheral temperature. Moreover, since there is also high power consumption value, a specified temperature environment is required. |
| 14 | Caution on prolonged storage | Storing the plasma television for a period of more than 2 to 3 months without use might cause an unstable picture when the set is turned on. |
| 15 | Operating | Operating altitude: 800 to 1114hPa (6194ft to -2484ft). Operating temperature: 41˚F to 95˚F. |
| 16 | Storage | Storage Altitude: 300 to 1114hPa (31,912ft to -2484ft). Storage temperature: 5˚F to 140˚F. |
| 17 | Power ON or OFF | Frequent use of the Power ON or OFF might trigger the power protection circuit. If the TV does not turn ON, please wait a little before turning ON again. |

**To take measures to prevent the Plasma Display from tipping over and prevent possible injury it is important to mount the unit in a stable place.**

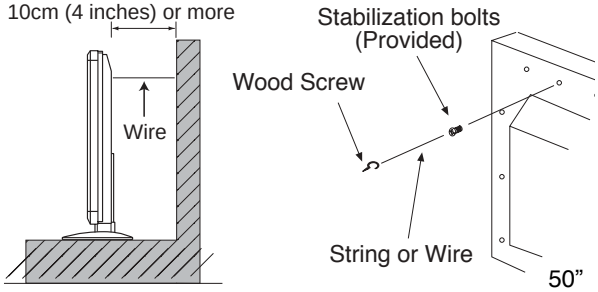
**Securing to a table-top**

1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma Display stand as shown below.
2. Using commercially available wood screws, secure the set firmly in position.



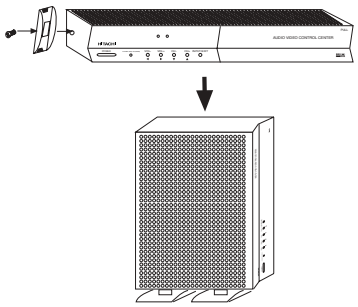

**Securing to a wall**

1. Keep the Plasma Display monitor four inches away from the wall except those hung to the wall mount bracket.
2. Secure the monitor to the wall as shown below.




**AVC Vertical Position (Using AVC Stand)**

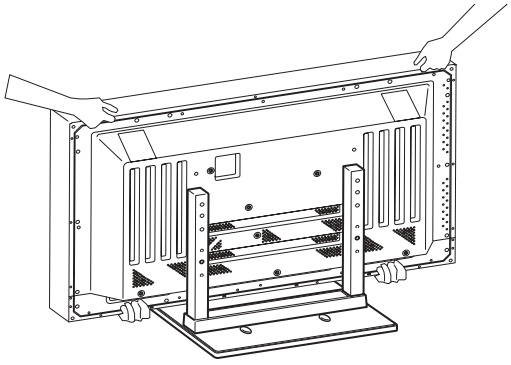
1. Install AVC Stand with screws provided.
2. AVC ventilation holes should be facing out.



**NOTES:**
1. Do not block the ventilation holes of the Plasma Display monitor or the AVC center. Blocking the ventillation holes might cause fire or defect.
2. The plasma television has two AC cords, one on the AVC center and the other on the Plasma Display monitor. In case of an abnormal symptom, unplug both AC cords.
3. If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.

**Caution when moving the main unit**

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the two handgrips at the back, and the unit should then be held at the base on both sides for stability. When moving the Display Monitor, lift the handles and the bottom frame as shown below. Do not grab the speakers or the back cover when lifting.



**ANTENNA**

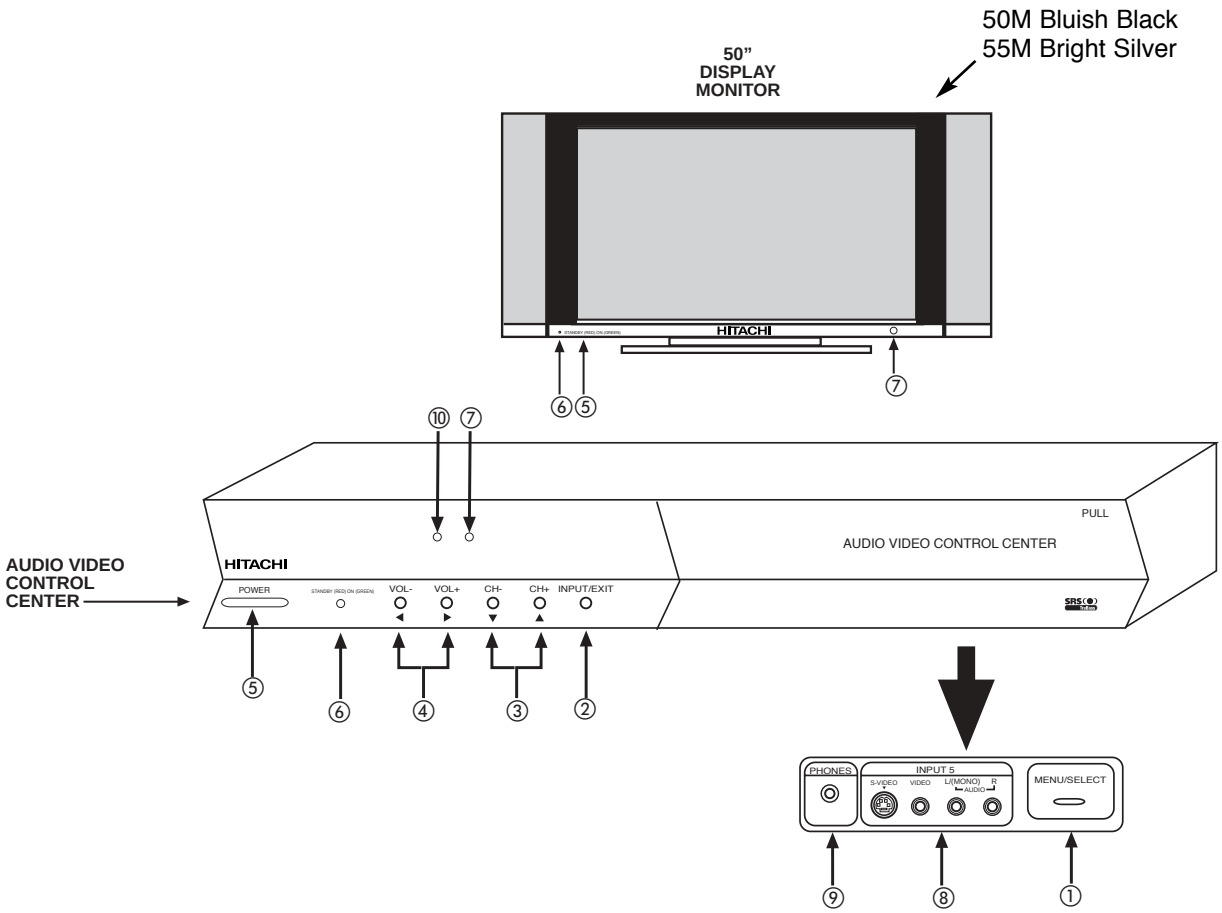
Unless your Plasma Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

**LOCATION**

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set.
To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

# FRONT PANEL CONTROLS

## FRONT VIEW




### ① MENU/SELECT button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

### ② INPUT/EXIT button

Press this button to select the desired input, VIDEO 1 to 5, RGB, or Ant A/B source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

**NOTES:** Your remote control does not have an INPUT button. To change to video inputs, press VID1~VID5 buttons depending on the input you wish to switch to. Press TV/RGB button on the remote control to toggle between TV and RGB (ANALOG INPUT).

### ③ CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

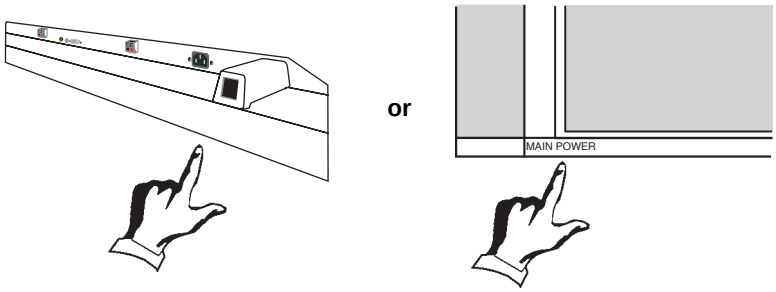
### ④ VOLUME level

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.

⑤ **POWER button**

**Display Monitor "MAIN POWER" button**

This power button is for the complete system, and must be turned ON/OFF manually. It is recommended to leave the "MAIN POWER" to ON condition (lights red) for stand-by mode.




**AVC POWER button**

The AVC power can be turned ON/OFF manually or by remote control. Turning on the AVC Power will only turn on the AVC box if the "MAIN POWER" of the display monitor is off.

⑥ **POWER light indicator**

To turn the monitor ON, press the main power switch located on the lower right side of the monitor. A red stand-by indicator lamp located on the lower right corner of the front bezel will illuminate (lower left for 50"). The PDP is now ready for remote on/off operation.

| Indicating Lamp | Power Status | Operating |
|---|---|---|
| Off | Off | When the main power switch is set OFF. |
| Lights Red | Off (Stand-by) | When the main power switch on the display monitor is ON, and the AVC Center is OFF. |
| Lights Green | On | Display monitor MAIN POWER is ON and AVC Center power is ON. |
| Lights Orange (Flashing) | Off (Power Saving) | Display monitor MAIN POWER is ON and and AVC Center power is ON, with no signal input except antenna (no sync. signal). |

⑦ **REMOTE CONTROL sensor**

Point your remote at this area when selecting channels, adjusting volume, etc.

⑧ **FRONT INPUT JACKS (for VIDEO: 5)**

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. press the VID5 button on the remote control button and VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

⑨ **PHONES JACK**

Use this jack for your head-phones. The TV's internal speakers can also be heard. Turn off the internal speakers (see page 46) if you wish to listen to the head-phones only.

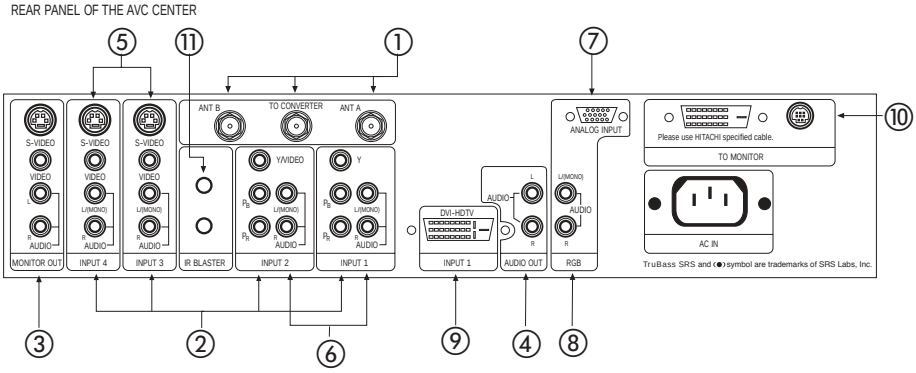
⑩ **LEARNING AV NET Sensor**

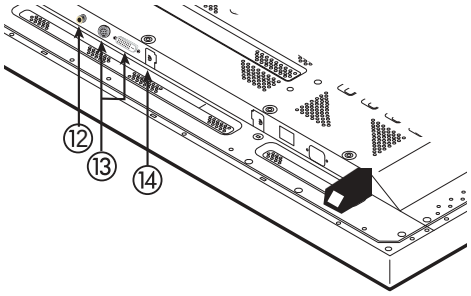
Point your equipment's remote control at this area while using the AV NET Learning Wizard.

**NOTES: 1.** Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when VIDEO: 1, 2, 3, 4, 5, or RGB is selected. Check the Power Light to make sure the Display Monitor is turned off or in Stand-by mode (lights red) when not in use.

2. Remote Control can not turn ON/OFF the "MAIN POWER" of the display monitor.

# REAR PANEL JACKS




① **Antenna Input/Output**
The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture. (ANT B cannot be displayed as a sub-picture). The antenna output labeled "TO CONVERTER" allows the ANT A connection to pass directly to a different source such as a cable box, only when ANT B is displayed as a main picture.

② **Audio/Video Inputs 1, 2, 3 and 4**
The VID1~VID4 buttons will select each video source each time they are pressed. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

③ **MONITOR OUT**
These jacks provide fixed audio and video signals (ANT A/B, INPUT 2~5) which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to Input 1 and 2 will not have monitor output.

④ **AUDIO OUT**
These jacks provide fixed audio output for all audio sources (ANT A/B, INPUT1~5, and RGB) to a separate stereo amplifier.

⑤ **S-VIDEO Inputs 3 and 4**
Inputs 3 and 4 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

**NOTES:**
1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 3 and 4, but only one of these inputs may be used at a time.
2. S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.

⑥ **Component: Y-$P_BP_R$ Inputs**
Inputs 1 and 2 provide Y-$P_BP_R$ jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for INPUT 2. INPUT 1 does not accept composite video signal.

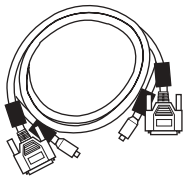
**NOTES:**
1. DO NOT connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-Video has a higher priority over video input.
2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the AVC Box's $P_B$ input and the components R-Y output to the AVC Box's $P_R$ input.
3. Your component outputs may be labeled Y-$C_BC_R$. In this case, connect the component $C_B$ output to the AVC Box's $P_B$ input and the component $C_R$ output to the AVC Box's $P_R$ input.
4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-$P_BP_R$ inputs.
5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-$P_BP_R$ jacks.

⑦ **RGB - Analog Input**
Use this 15-pin D-Sub input for your external devices with RGB output.

⑧ **RGB - Audio Input**
Connect audio for RGB input.

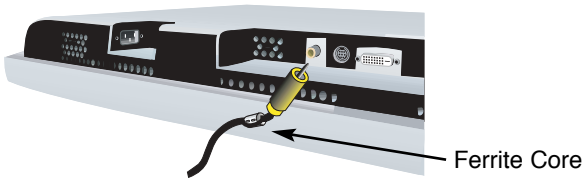
⑨ **DVI - HDTV - Digital Input**
Use this DVI Digital input for your external devices with digital output capability, such as a Set-Top-Box, high band DTV decoders and DVD players with digital content protection. DVI is INPUT 1 and has priority over component input. Signal priority are as follows; DVI, Component, S-Video, then composite. When using a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

⑩ **To Monitor**
Connect the Monitor Connection Cable to the AVC center's "TO MONITOR" connector, and to the display monitors "FROM AVC" connector.



⑪ **IR Blaster**
This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the AV network feature. This connection will allow you to control the external components with your Plasma Television's remote control in TV mode.

⑫ **Subwoofer Out**
Connect this SUB WOOFER OUT output to the external audio component input using the subwoofer cable provided.




⑬ **To AVC**
Connect the Monitor Connection cable from the AVC center's "TO MONITOR" to these connectors ("FROM AVC").

⑭ **SUB-POWER button**
This power is for serviceman usage.

**PDP MONITOR**

**Self Diagnostic**
This button is also a troubleshooting aid, when a PDP monitor failure occurs, the pressing of the sub-power button, for more than 5 seconds, generates a blinking series of the power indicator light. See page 47 for self-diagnostic function.

# CONNECTING AV NETWORK

Your Hitachi Plasma Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your Hitachi Plasma TV Remote Control. You can use your Hitachi remote control to control the Audio/Video equipment command without the equipment's remote control.

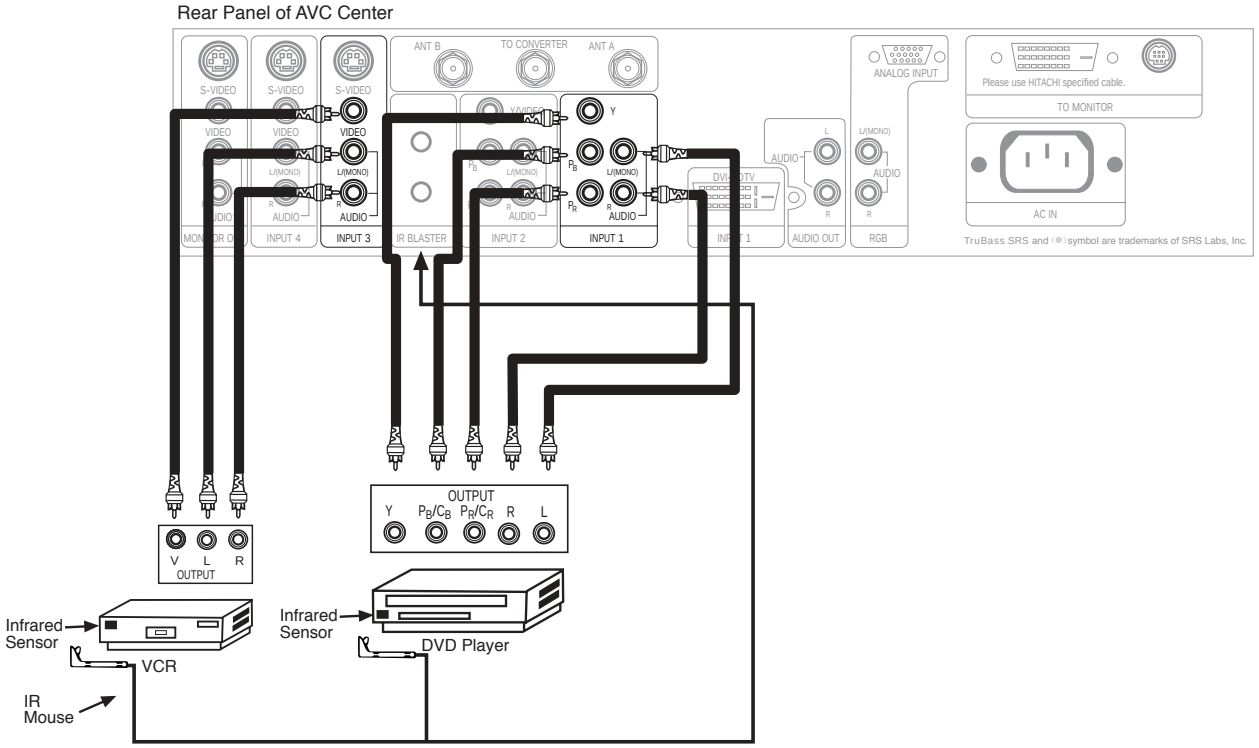
The Plasma Television AVC Center has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Network setup between your Hitachi Plasma Television and external Audio/Video equipment (VCR and DVD Player).

**CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR BLASTER FOR AV NETWORK**

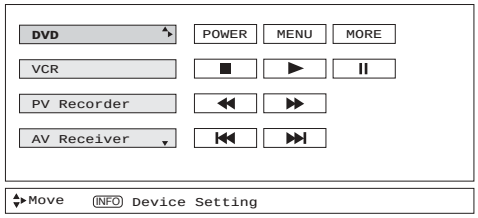
1. Connect your external Audio/Video components to the AVC Center shown in the example below.

2. Connect the IR Mouse cable to the IR BLASTER output of the AVC Center.

3. Place the IR mouse in front of the infrared sensor of the external components you wish to control.




4. Press the AV NET button on the remote control. Use THUMB STICK ▲ or ▼ to highlight the component you wish to set up. Use THUMB STICK ▶ to enter component's "SOFT KEY" control button. The AV Network Setup Wizard will automatically start upon the very first use. You can access the Setup Menu Wizard again in the future by pressing the AV net button and then pressing the INFO button.

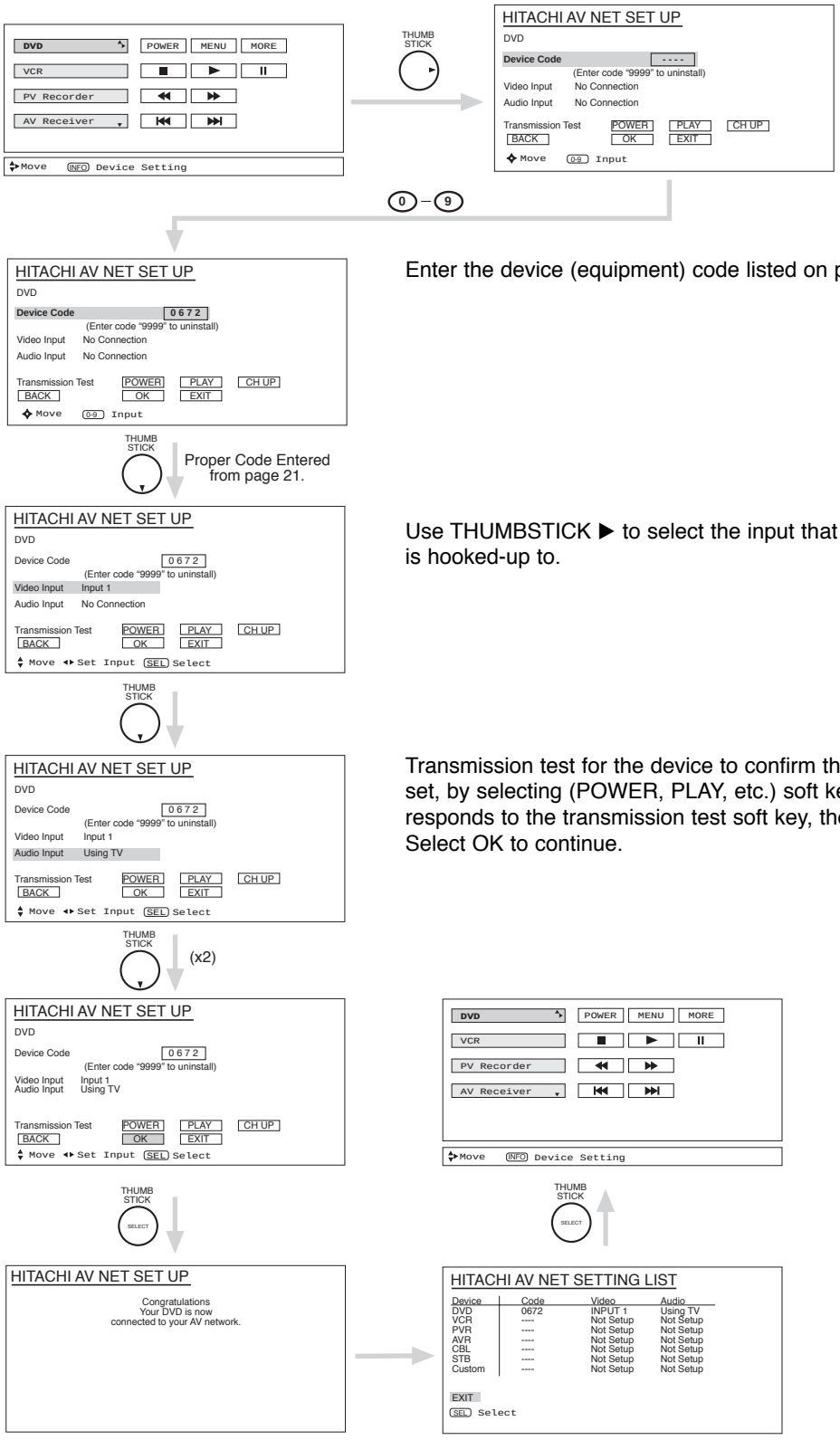



**NOTES:**
1. The AVC Center has two IR BLASTER outputs which can control up to a total of four external components.
2. The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work.
3. The correct codes must be entered for each of the Audio/Video components for the AV Network to function properly.
4. Audio/Video component codes for AV network are on page 22.

# AV NETWORK SETUP WIZARD

5. Follow the steps below to setup the AV network (See page 22 for AV Network Codes).

**There are six steps in the setup procedure (VCR setup example below).**




Enter the device (equipment) code listed on page 22.

Use THUMBSTICK ▶ to select the input that the device (equipment) is hooked-up to.

Transmission test for the device to confirm that the proper code was set, by selecting (POWER, PLAY, etc.) soft keys shown. If the device responds to the transmission test soft key, then it is properly set up. Select OK to continue.

6. To uninstall or change device (equipment), press INFO button on the remote control when the device (DVD, VCR, etc.) is highlighted.

# AUDIO/VIDEO CODES FOR AV NETWORK

**VCR BRAND . . . . . CODE**
Admiral . . . . . 0048, 0209
Adventura . . . . . .0000
Aiko . . . . . 0278
Aiwa . . . . . 0000, 0037
Akai . . . . . 0041
America Action . . . . . 0278
American High . . . . . 0035
Asha . . . . . 0240
Audiovox . . . . . 0037, 0278
Beaumark . . . . . 0240
Bell & Howell . . . . . 0104
Broksonic . . . . . 0121, 0184, 0002, 0209, 0479, 1479, 0278
CCE . . . . . 0072, 0278
Calix . . . . . 0037
Canon . . . . . 0035
Carver . . . . . 0081
Cineral . . . . . 0278
Citizen . . . . . 0278, 0037, 1278
Colt . . . . . 0072
Craig . . . . . 0037, 0072, 0047, 0240
Curtis Mathes . . . . 0035, 0041, 0060, 0162, 0760, 1035
Cybernex . . . . . 0240
Daewoo . . . . . 0278, 1278, 0045
Denon . . . . . 0042
Dynatech . . . . . 0000
Electrohome . . . . . 0037
Electrophonic . . . . . 0037
Emerex . . . . . 0032
Emerson . . . . . 0184, 0002, 0209, 0121, 0000, 0037, 0043
Fisher . . . . . 0104, 0047
Fuji . . . . . 0033, 0035
Funai . . . . . 0000
GE . . . . . 0035, 0060, 0240, 0760, 0807, 1035, 1060
Garrard . . . . . 0000
Go Video . . . . . 0432
GoldStar . . . . . 0037, 0038, 1237
Gradiente . . . . . 0000
HI-Q . . . . . 0047
Harley Davidson . . . . . 0000
Harman/Kardon . . . . . 0038, 0081
Harwood . . . . . 0072
Hitachi . . . . . 0000, 0041, 0042
Hughes Network Systems . . . . . 0042
JVC . . . . . 0067, 0041
Jensen . . . . . 0041
KEC . . . . . 0037, 0278
KLH . . . . . 0072
Kenwood . . . . . 0041, 0067, 0038
Kodak . . . . . 0035, 0037
LXI . . . . . 0037
Lloyd's . . . . . 0000
Logik . . . . . 0072
MEI . . . . . 0035
MGA . . . . . 0043, 0240
MGN Technology . . . . . 0240
MTC . . . . . 0000, 0240
Magnasonic . . . . . 1278
Magnavox . . . . . 0035, 0081, 0563, 0000, 0039, 0149, 1781
Magnin . . . . . 0240
Marantz . . . . . 0081, 0035
Marta . . . . . 0037
Matsushita . . . . . 0035, 0162, 0454
Memorex . . . . . 0047, 0037, 0104, 0209, 0454,0048, 0039, 0240, 0000, 0479, 1037, 1162, 1237, 1262
Minolta . . . . . 0042
Mitsubishi . . . . . 0807, 0043, 0067
Motorola . . . . . 0035, 0048
Multitech . . . . . 0000, 0072
NEC . . . . . 0038, 0041, 0067, 0104
Nikko . . . . . 0037
Noblex . . . . . 0240
Olympus . . . . . 0035
Optimus . . . . . 1062, 0162, 0037, 0048, 0104, 0432, 0454, 1048, 1162, 1262
Orion . . . . . 0184, 0209, 0002, 0479, 1479
Panasonic . . . . . 1062, 0035, 01625, 0225, 0454, 0616, 1035, 1162, 1262
Penney . . . . . 0035, 0037, 0240, 0042, 0038, 1035, 1237
Pentax . . . . . 0042
Philco . . . . . 0035, 0209, 0479
Philips . . . . . 0081, 0035, 0618, 1081, 1181
Pilot . . . . . 0037
Pioneer . . . . . 0067
Polk Audio . . . . . 0081
Profitronic . . . . . 0240
Proscan . . . . . 0060, 0760, 1060
Protec . . . . . 0072
Pulsar . . . . . 0039
Quasar . . . . . 0035, 0162, 0454, 1035, 1162
RCA . . . . . 0060, 0240, 0042, 0149, 0760, 0807, 1035, 1060
Radio Shack . . . . . 0000, 1037
Radix . . . . . 0037
Randex . . . . . 0037
Realistic . . . . . 0035, 0037, 0048, 0047, 0000, 0104
ReplayTV . . . . . 0614, 0616
Runco . . . . . 0039
STS . . . . . 0042
Samsung . . . . . 0045, 0240
Sanky . . . . . 0039, 0048
Sansui . . . . . 0000, 0067, 0209, 0041, 0479, 1479
Sanyo . . . . . 0047, 0240, 0104
Scott . . . . . 0184, 0045, 0121, 0043
Sears . . . . . 0035, 0037, 0047, 0000, 0042, 0104, 1237
Semp . . . . . 0045
Sharp . . . . . 0048, 0807, 0848
Shintom . . . . . 0072
Shogun . . . . . 0240
Singer . . . . . 0072
Sonic Blue . . . . . 0614, 0616
Sony . . . . . 0035, 0032, 0000, 0033, 0636, 1032, 1232
Sylvania . . . . . 0035, 0081, 0000, 0043, 1781
Symphonic . . . . . 0000
TMK . . . . . 0240
Tatung . . . . . 0041
Teac . . . . . 0000, 0041
Technics . . . . . 0035, 0162
Teknika . . . . . 0000, 0035, 0037
Thomas . . . . . 0000
Tivo . . . . . 0618, 0636
Toshiba . . . . . 0045, 0043, 845
Totevision . . . . . 0037, 0240
Unitech . . . . . 0240
Vector . . . . . 0045
Vector Research . . . . . 0038
Video Concepts . . . . . 0045
Videomagic . . . . . 0037
Videosonic . . . . . 0240
Wards . . . . . 0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0760
White Westinghouse . . . . . 0072, 1278, 0209
XR-1000 . . . . . 0072, 0000, 0035
Yamaha . . . . . 0038
Zenith . . . . . 0039, 0000, 0209, 0033, 0479, 1479, 0033, 0034, 0209, 0479

**DVD BRAND . . . . . CODE**
Aiwa . . . . . 0641
Apex . . . . . 0672, 0717, 0755, 0794, 0795, 0796, 0797, 0830
Audiologic . . . . . 0736
B & K . . . . . 0655, 0662
Blue Parade . . . . . 0571
Brooksonic . . . . . 0695
DVD2000 . . . . . 0521
Daewoo . . . . . 0784
Denon . . . . . 0490, 0634
Emerson . . . . . 0591
Enterprise . . . . . 0591
Fisher . . . . . 0670
GE . . . . . 0522, 0717, 0815
GPX . . . . . 0699, 0769
Go Video . . . . . 0715
Gradiente . . . . . 0651
Greenhill . . . . . 0717
Harman/Kardon . . . . . 0582, 0702
Hitachi . . . . . 0573, 0664
Hiteker . . . . . 0672
JBL . . . . . 0702
JVC . . . . . 0623, 0558, 0867
KLH . . . . . 0717
Kenwood . . . . . 0490, 0534, 0682
Konka . . . . . 0711, 0719, 0721
Koss . . . . . 0651
Lasonic . . . . . 0798
Magnavox . . . . . 0503, 0675
Malata . . . . . 0782
Marantz . . . . . 0539
Microsoft . . . . . 0522
Mintek . . . . . 0717
Mitsubishi . . . . . 0521
Nesa . . . . . 0717
Onkyo . . . . . 0627, 0503
Oritron . . . . . 0651
Panasonic . . . . . 0490, 1362, 0632
Philips . . . . . 0503, 0539, 0646, 0854
Pioneer . . . . . 0525, 0571, 0632
Polk Audio . . . . . 0539
Princeton . . . . . 0674
Proscan . . . . . 0522
RCA . . . . . 0522, 0571, 1022, 0717
Samsung . . . . . 0573, 0820
Sansui . . . . . 0695
Sanyo . . . . . 0670
Sharp . . . . . 0630
Sherwood . . . . . 0633
Sony . . . . . 0533
Sylvania . . . . . 0675
Technics . . . . . 0490
Techwood . . . . . 0692
Theta Digital . . . . . 0571
Toshiba . . . . . 0503, 0695
Urban Concepts . . . . . 0503
Yamaha . . . . . 0490, 0545, 0539
Zenith . . . . . 0591, 0503

**CABLE BRAND . . . . . CODE**
ABC . . . . . 0003, 0008, 0014, 0017
Americast . . . . . 0899
Bell & Howel . . . . . .0014
Bell South . . . . . 0899
Director . . . . . 0476
General Instrument . . . . . 0003, 0476, 0276, 0810
GoldStar . . . . . 0144
Hamlin . . . . . 0009, 0273
Jerrold . . . . . .0476, 0003, 0276, 0012, 0014, 0810
Memorex . . . . . .0000
Motorola . . . . . 0476, 1106, 0276, 0810
Pace . . . . . 0237
Panasonic . . . . . 0107, 0000
Philips . . . . . 0305, 0317
Pioneer . . . . . 0144, 0533, 0877, 1877
Pulsar . . . . . 0000
Quasar . . . . . .0000
Regal . . . . . .0273, 0279
Runco . . . . . .0000
Samsung . . . . . .0144
Scientific Atlanta . . . . . 0877, 0008, 0017, 0477, 1877
Sony . . . . . 1006
Starcom . . . . . 0003
Supercable . . . . . 0276
Tocom . . . . . 0012
Torx . . . . . 0003
Toshiba . . . . . 0000
Zenith . . . . . 0000, 0525, 0899

**SATELLITE BRAND (Set-Top-Box) . . . . . CODE**
AlphaStar . . . . . 0772
Chapparral . . . . . 0215
Crossdigital . . . . . 1109
DishPro . . . . . 1005, 0775
Echostar . . . . . 1005, 0775
Expressvu . . . . . 0775
GE . . . . . 0566
GOI . . . . . 0775
General Instrument . . . . . 0869
HTS . . . . . 0775
Hitachi . . . . . 0819
Hughes Network Systems . . . . . 1142, 0749, 1749
JVC . . . . . 0775
Magnavox . . . . . 0724, 0722
Memorex . . . . . 0724
Mitsubishi . . . . . 0749
Motorola . . . . . 0869
Next Level . . . . . 0869
Panasonic . . . . . 0247, 0701
Paysat . . . . . 0724
Philips . . . . . 1142, 0749, 0724, 1076, 0722, 1749
Proscan . . . . . 0392
RCA . . . . . 0392, 0566, 0855, 0143
Radioshack . . . . . 0869
SKY . . . . . 0856
Samsung . . . . . 1109
Sony . . . . . 0639
Star Choice . . . . . 0869
Toshiba . . . . . 0749, 0790, 1749
Uniden . . . . . 0724, 0722
Zenith . . . . . 0856, 1856

**AMPLIFIER BRAND . . . . . CODE**
Aiwa . . . . . .0406
Bose . . . . . 0674
Carver . . . . . 0269
Curtis Mathes . . . . . .0300
Denon . . . . . .0160
GE . . . . . .0078
Harman/Kardon . . . . . .0892
JVC . . . . . .0331
Left Coast . . . . . 0892
Linn . . . . . .0269
Luxman . . . . . 0165
Magnavox . . . . . 0269
Marantz . . . . . 0269, 0321, 0892
NEC . . . . . 0264
Nakamichi . . . . . 0321
Optimus . . . . . 0395, 0300
Panasonic . . . . . 0308, 0521
Parasound . . . . . 0246
Philips . . . . . 0269, 0892
Pioneer . . . . . 0013, 0300
Polk Audio . . . . . 0269, 0892
RCA . . . . . 0300
Realistic . . . . . .0395
Sansui . . . . . 0321
Shure . . . . . 0264
Sony . . . . . 0689, 0220
Soundesign . . . . . 0078, 0211
Technics . . . . . 0308, 0521
Victor . . . . . 0331
Wards . . . . . 0013, 0078, 0211
Yamaha . . . . . 0354, 0133

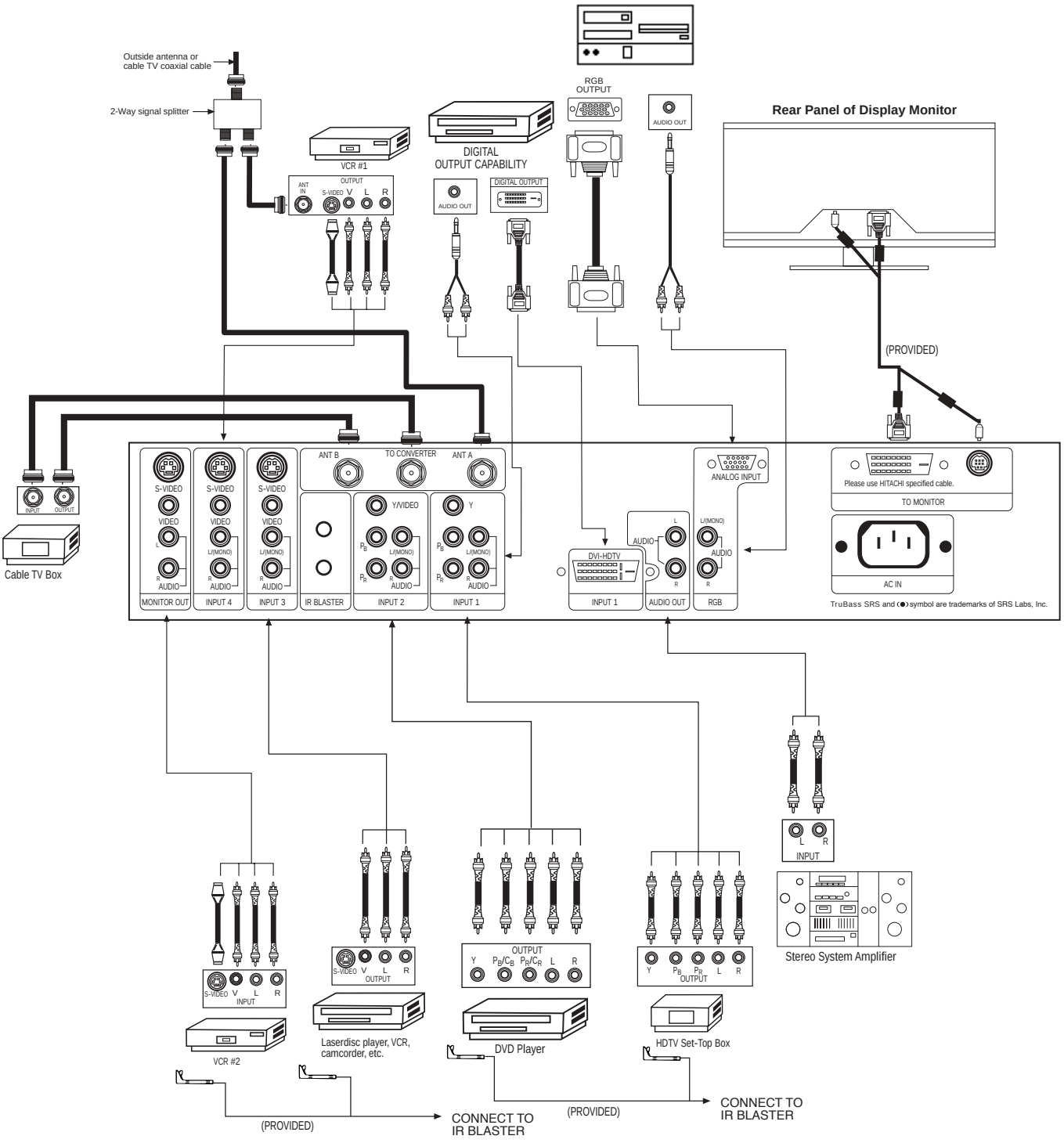
**RECEIVER BRAND (Amplifier) . . . . . CODE**
ADC . . . . . 0531
Adcom . . . . . 0616
Aiwa . . . . . 1089, 1405, 0121, 0158, 0189, 0405, 1321, 1388
Akai . . . . . 0076, 0224
Alco . . . . . 1390
Anam . . . . . 1074, 1609
Apex Digital . . . . . 1257
Arcam . . . . . 1120
Audiotronic . . . . . 1189
Audiovox . . . . . 1390
Bose . . . . . 1229
Capetronic . . . . . .0531
Carver . . . . . 1089, 1189, 0008, 0042, 0189, 0360
Casio . . . . . 0195
Celestion . . . . . 1264
Clarinette . . . . . 0195
Compaq . . . . . 1136
Curtis Mathes . . . . . 0080
Denon . . . . . .1104, 0004, 0273, 0771, 1311, 1360
Emerson . . . . . 0424
Fisher . . . . . 0042, 0219, 0360
GPX . . . . . 1299
Garrard . . . . . 0424, 0463
Glory Horse . . . . . 1263
Harman/Kardon . . . . . 0891, 0110, 0189
Hewlett Packard . . . . . 1181
Inkel . . . . . 0062
JBL . . . . . 0110, 1306
JVC . . . . . 0074, 1263, 1374
Kenwood . . . . . 1313, 1027, 1570, 1569, 0027, 0042, 0077, 0186, 0313, 0314, 0569, 1051, 1052
Koss . . . . . 0424, 1366
LXI . . . . . 0181
Lexicon . . . . . 1076
Linn . . . . . .0189
Lloyd's . . . . . 0195
MCS . . . . . 0039, 0346
Magnavox . . . . . 1089, 1189, 0128, 0189, 0195, 0391, 0531
Marantz . . . . . 1089, 1189, 0039, 0128, 0189
Modulaire . . . . . 0195
Musicmagic . . . . . 1089
NAD . . . . . 0320
NEC . . . . . 0235
Nakamichi . . . . . 0097, 0347
Onkyo . . . . . 0100, 0135, 0380, 0842, 1298
Optimus . . . . . 1023, 0042, 0080, 0177, 0181, 0186, 0219, 0531, 0670, 0738, 0801, 1074
Panasonic . . . . . 1518, 0039, 0309, 0367, 0518, 1288, 1350
Penney . . . . . 0195
Philips . . . . . 1089, 1189, 1269, 0189, 0391, 1120, 1268, 1283
Pioneer . . . . . 1023, 0014, 0080, 0150, 0244, 0531, 0630, 1343, 1384
Polk Audio . . . . . 0189
Proscan . . . . . 1254
Quasar . . . . . 0039
RCA . . . . . 1023, 1254, 0054, 0080, 0346, 0360, 0530, 0531, 1074, 1154, 1390, 1609
Radio Shack . . . . . 1263
Realistic . . . . . 0163, 0181, 0195
Samsung . . . . . 1295
Sansui . . . . . 0189, 1089, 0193, 0346
Sanyo . . . . . 0219, 0801, 1251
Scott . . . . . 0163, 0322
Sharp . . . . . 0186
Sherwood . . . . . 0062, 0491, 0502, 1653
Sony . . . . . 1058, 1258, 1158, 0158, 0168, 0474, 1042, 1458, 1758
Soundesign . . . . . 0670
Stereophonics . . . . . 1023
Sunfire . . . . . 1313, 0313, 0314, 1052
Teac . . . . . 0463, 0163, 1074
Technics . . . . . 1308, 1309, 1518, 0039, 0208, 0309, 0518
Thorens . . . . . 1189
Victor . . . . . 0074
Wards . . . . . .0014, 0054, 0080, 0158, 0189
Yamaha . . . . . 0176, 0186, 1176
Yorx . . . . . 0195
Zenith . . . . . 0857

**AUDIO BRAND . . . . . CODE**
Aiwa . . . . . 0010, 0159
AudioSource . . . . . 0351
Cambridge Soundworks . . . . . 0351
Carver . . . . . 0351
Fisher . . . . . 0052
Fosgate . . . . . 0259
Harmon/Kardon . . . . . 0477
JBL . . . . . 0477
JVC . . . . . 0073
KLH . . . . . 0351
Magnavox . . . . . 0325
Nikko . . . . . 0376
Paramount Pictures . . . . . 0317, 0351
RCA . . . . . 0056
SSI . . . . . 0317
Sansui . . . . . 0325
Schneider . . . . . 0376
Sony . . . . . 0010, 0576
Soundesign . . . . . 0376
Yorx . . . . . 0376

**SET TOP BOX BRAND . . . . . CODE**
Panasonic . . . . . 1120
Pioneer . . . . . 1010
Princeton . . . . . 0113, 0295
Samsung . . . . . 1190
Sensory Science . . . . . 1126
Sharp . . . . . 1010
Sony . . . . . 0639

**PERSONAL VIDEO RECORDER BRAND . . . . . CODE**
Panasonic . . . . . 0616
Philips . . . . . 0618
ReplayTV . . . . . 0614, 0616
SonicBlue . . . . . 0614, 0616
Sony . . . . . 0636
Tivo . . . . . 0618, 0636

# REAR PANEL CONNECTIONS



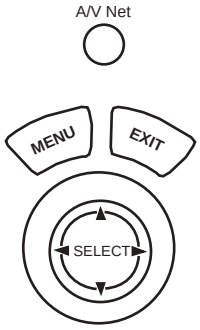

**NOTE:** Cables are optional, except when specified.

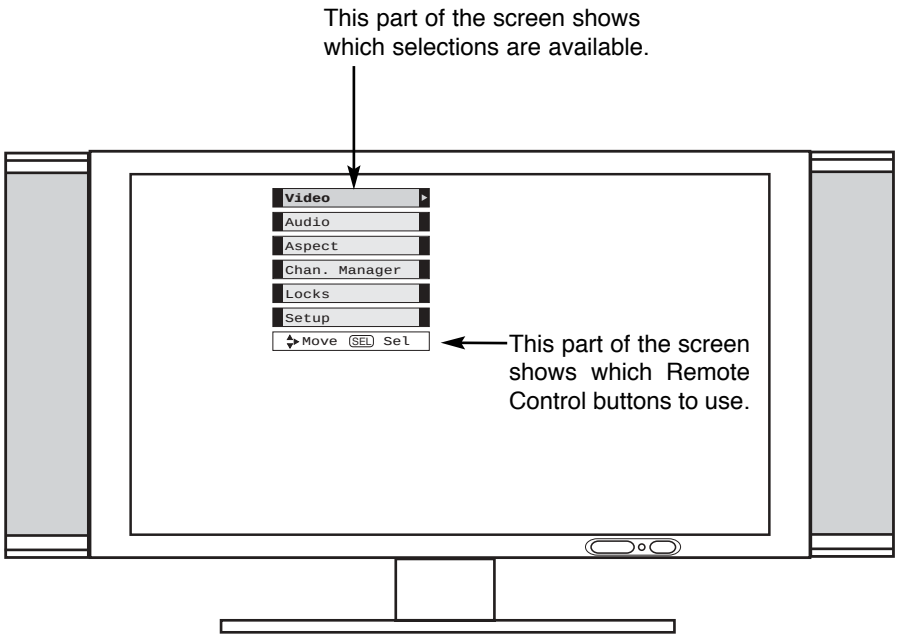
# TIPS ON REAR PANEL CONNECTIONS

- S-VIDEO connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on the AVC Center.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 4 in the example on page 23). Refer to your VCR operating guide for more information on line input-output connections.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-$P_BP_R$ (Input 1 & 2) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's $P_B$ input and the components R-Y output to the TV's $P_R$ input.
- Your component outputs may be labeled Y-$C_BC_R$. In this case, connect the components $C_B$ output to the TV's $P_B$ input and the components $C_R$ output to the TV's $P_R$ input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-$P_BP_R$ inputs.
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the $^{Y\text{-}}P_BP_R$ jacks.
- Input 1 can accept component $^{Y\text{-}}P_BP_R$ signal only.
- Input 2 can accept both component Y-$P_BP_R$ and composite video signal.
- You may use VIDEO or S-VIDEO inputs to connect to INPUT 3, 4 or 5, but only one of these, VIDEO or S-VIDEO, may be used at a time for each input. S-VIDEO has priority over VIDEO.
- S-VIDEO output may be used for recording only when the input is of S-VIDEO type.
- When using a DVI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

# TV MODE ON-SCREEN DISPLAY

1. Press MENU on the remote control to display the different features on your HITACHI Plasma TV.
2. Use the THUMB STICK to navigate to a different menu item.
3. Press EXIT on the remote control to quickly exit from a menu.
4. Press AV NET on the remote control to access the AV Network menu to control external components.



# TV MODE ON-SCREEN DISPLAY

## Video

| | |
|---|---|
| Picture Mode | Select between the two picture modes; Day and Night. |
| Contrast | Adjust contrast. |
| Brightness | Adjust brightness. |
| Color | Adjust color. |
| Tint | Adjust tint. |
| Sharpness | Adjust sharpness. |
| Color Temperature | Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors or Black and White for more reddish color. |
| Black Enhancement | Adjust shadow detail in dark screens. |
| Contrast Mode | Choose Automatic Contrast settings. |
| Reset Video Settings | Choose the Reset Video settings. |
| Color Management | Adjust and balance individual colors to make either deeper or more pure according to preference. |
| Color Decoding | Adjust the percentage of Red, Green and Color according to preference. |
| Auto Color | The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors. |
| Noise Reduction | Reduces conspicuous noise in the picture. |
| Auto Movie Mode | Turn ON/OFF the 3:2 Pulldown detection feature. |

## Audio

| | |
|---|---|
| Treble | Adjust the treble. |
| Bass | Adjust the bass. |
| Balance | Adjust the balance. |
| SRS TruBass | Select TruBass and Matrix surround settings. |
| Matrix Surround | Improve sound performance. |
| Audio Source | Select between three Audio Sources. |
| Internal Speakers | Select internal or external speakers. |
| Auto Noise Cancel | Eliminates the noise between stations. |
| Perfect Volume | Adjust volume in fixed setting. |

## Aspect

| | |
|---|---|
| Mode | Choose the picture format aspect ratio. |

## Chan. Manager

| | |
|---|---|
| Ant A | View/edit Channel ID, Scan, and Lock settings in antenna A. |
| Ant B | View/edit Channel ID, Scan, and Lock settings in antenna B. |

## Locks

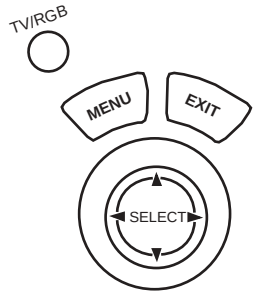
| | |
|---|---|
| Change Access Code | Change Lock access code. |
| Engage Lock | Choose to lock channel, video input, and front panel. |
| TV Time Lock | Set specific time to Lock TV. |
| Movie Ratings | Block various types of movies and video types based on motion picture ratings. |
| TV Ratings | Block various types of movies and television programming based on a parental guide ratings. |
| Canadian Ratings (ENG) | Block various types of movies and television programming based on the Canadian ratings system. |
| Canadian Ratings (FRN) | Block various types of movies and television programming based on the Canadian French ratings system. |

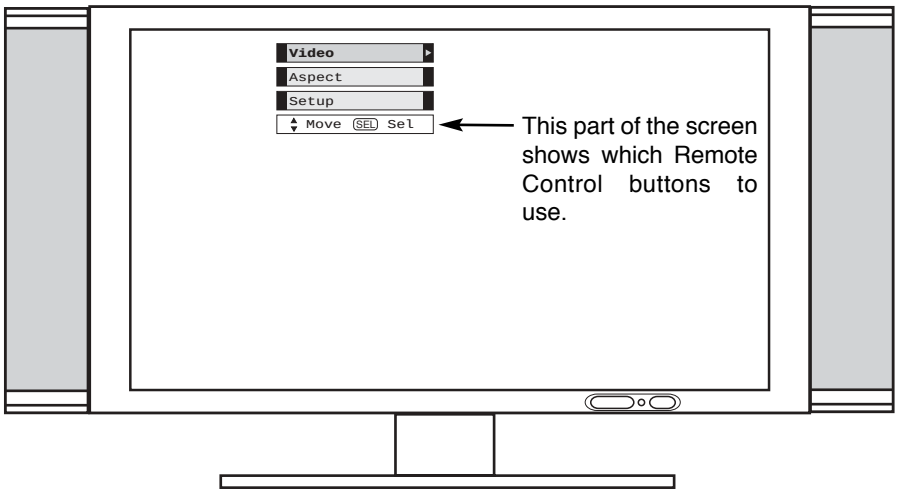
## Setup

| | |
|---|---|
| Menu Preference | Choose English, French, or Spanish text. |
| Screen Saver | Set Screen Saver to prevent screen burn. |
| Set The Clock | Set the TV clock. It must be set before using the Lock feature. |
| Set The Inputs | Label Video Inputs , VCR, DVD, etc. |
| Set The Color System | Set tint and color coordinates for DTV programs. |
| Set Black Side Panel | Set the gray side bars on/off when watching 4:3 signals in standard mode. |
| Set Event Timer | Turn TV on and off once, daily, or weekly. |
| Set Closed Captions | Feature to display dialogue/text. |

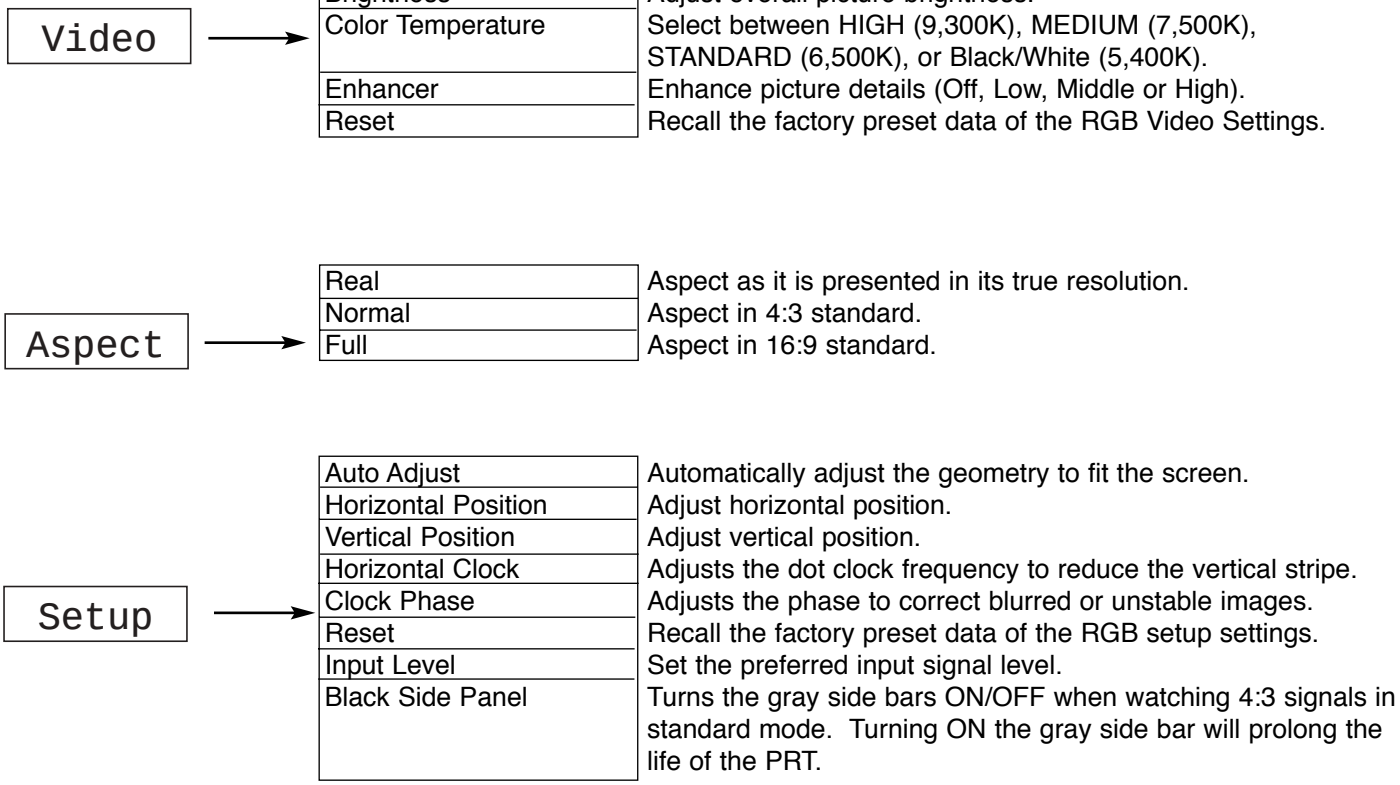
# RGB MODE ON-SCREEN DISPLAY

1. Press TV/RGB button on the remote control to switch between TV and RGB modes.
2. Press MENU on the remote control to display the different features in RGB MODE.
3. Press the THUMB STICK ▲, ▼, ◄, ► buttons to highlight a different feature.
4. Press EXIT on the remote control to quickly exit from a menu.



# RGB MODE ON-SCREEN DISPLAY



| | | |
|---|---|---|
| Video → | Contrast | Change the contrast between black and white levels in the picture. |
| | Brightness | Adjust overall picture brightness. |
| | Color Temperature | Select between HIGH (9,300K), MEDIUM (7,500K), STANDARD (6,500K), or Black/White (5,400K). |
| | Enhancer | Enhance picture details (Off, Low, Middle or High). |
| | Reset | Recall the factory preset data of the RGB Video Settings. |
| Aspect → | Real | Aspect as it is presented in its true resolution. |
| | Normal | Aspect in 4:3 standard. |
| | Full | Aspect in 16:9 standard. |
| Setup → | Auto Adjust | Automatically adjust the geometry to fit the screen. |
| | Horizontal Position | Adjust horizontal position. |
| | Vertical Position | Adjust vertical position. |
| | Horizontal Clock | Adjusts the dot clock frequency to reduce the vertical stripe. |
| | Clock Phase | Adjusts the phase to correct blurred or unstable images. |
| | Reset | Recall the factory preset data of the RGB setup settings. |
| | Input Level | Set the preferred input signal level. |
| | Black Side Panel | Turns the gray side bars ON/OFF when watching 4:3 signals in standard mode. Turning ON the gray side bar will prolong the life of the PRT. |

# ADJUSTMENTS TABLE OF CONTENTS

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## 1 ADJUSTMENT PROCEDURE START-UP

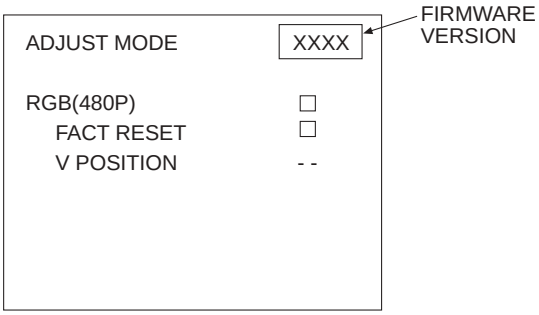
The 50HDT50M/55M PDP TV set, undergoes through adjustment procedures during its assembly process. These adjustments must be done to assure the best performance of the PDP set for the consumer.

Also, after servicing, these same adjustments must be done. The adjustments are all made through the $I^2C$ bus by changing data in the Adjustment mode menu.

Table 2 on pages 38-46 shows the complete parameter list with a brief description, signal format, the adjustment range and the initial data.

### 1.1 HOW TO GET TO ADJUSTMENT MODE

Chassis adjustment can be done by using the AVC51 front control panel buttons with PDP set turned off. Press “POWER” and “INPUT” keys at the same time, and hold for more than 3 seconds. Release the “POWER” button first and then immediately the “INPUT” button. The PDP set turns on in adjustment mode with OSD as follows.

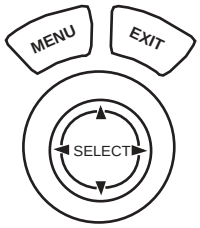



To escape from Adjustment Mode press “INPUT” key to exit service adjustment mode.
Table 2 can be found on pages 38-46.

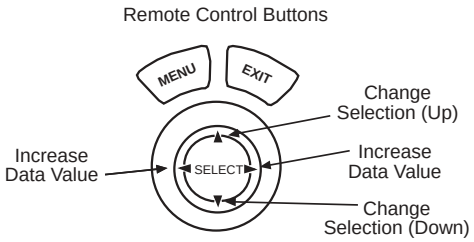
### 1.2 CHANGING DATA AND SELECTING ADJUSTMENT CODE

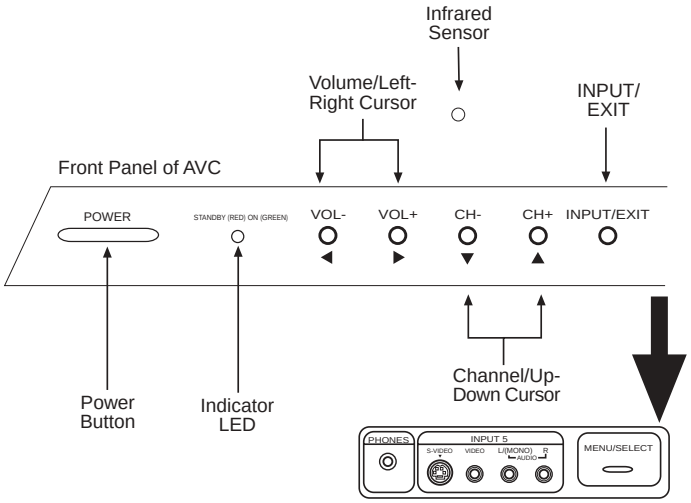
When the PDP set is in adjustment mode, the cursor ◄, ►, ▲, ▼ and MENU keys of the remote control or front panel may be used as the adjustment keys.

A. Use any Hitachi remote control when making an adjustment.




▲, ▼ keys are used for selecting adjustment code.
◄, ► keys are used for changing data values.
MENU key is used to advance through the adjustment mode menus and pages.




B. To make a selection, use the CURSOR keys on the AVC front control panel or the Remote Control.
C. After finishing the necessary adjustment press the R/C EXIT key or EXIT key on the front panel.
Adjustment mode is released and PDP set returns to normal condition.

## 2 MEMORY INITIALIZE

### 2.1 MEMORY INITIALIZE OPERATION

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, **adjustment data will be lost**.

There are two procedures for memory initialize, this is the first.

**Procedure 1**

(1) Enter Adjustment mode by the method described in sub-items 1.1 and 1.2 from item 1 (“Adjustment procedure start up”).
(2) Get to the second page of Adjust Mode by pressing remote control “Menu” key once, or with either the R/C or front panel ▲, ▼ cursor keys several times.
(3) Select MEMORY INIT adjust code.
(4) Activate MEMORY INIT by pressing ► cursor key for more than 3 seconds.
(5) Check that the receiving channel goes to CH03. Unit is set to preset values.



BACK TO ADJUSTMENTS

**Procedure 2**

(1) Short PRST connector on the AVC PWB and check that the set return to delivery settings (CH 03).
(2) Do not unplug from AC outlet until this operation is completed and do not perform any key operation either. After this operation, each factory setting and adjust mode data should reset to delivery setting automatically.

### 2.2 FACTORY AND SERVICE ADJUSTMENTS

The adjustment item that is affected by the memory initialize operation is shown below:

| | Initialization | |
|---|---|---|
| Adj. Items | Memory Init. | W/B Init.(No need to use) |
| Video white blance Adj. | | affect |
| PC white blance Adj. | | affect |
| Video RGB Amplitude Adj. | | |
| PC RGB Amplitude Adj. | | |
| Sub-contrast Adj. | affect (M-CONT4; S-CONT4) | |

| Adjustment | | |
|---|---|---|
| change of FC-unit | change of PDP-module or change ofI002(EEPROM) onSIG/AUDIOPWB | change of I003(EEPROM)on AV PWB or Memory Init. |
| | Adj. | |
| | Adj. | |
| Adj. | | |
| Adj. | | |
| | | Adj. |

## 3 AMPLITUDE ADJUSTMENT (AVC CENTER)

### 3.1 RGB AMPLITUDE ADJUSTMENT

**Preparation**

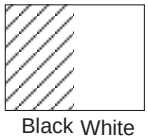
(1) Select "Video" - "Picture Mode" - "Day" - "Reset". Set "Reset" of "Video" menu when PC input is selected.
(2) Input 525p(480p) of RGB amplitude adj. signal into INPUT1(Component) input.
(3) Input VGA(60Hz) RGB amplitude adj. signal into RGB input.

Note: Perform pre heat-run for more than 30 min. before adjusting.

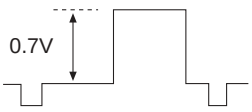
**Adjustment**

(1) Receive 525p(480p) signal (Aspect 16:9 Standard).
(2) Select 'RGB(480p)' of Service Adj. menu. Press right cursor key (▶) over 2 seconds and have it perform automatic adjustment. When it's completed, 'Auto Adjusting' on the screen will disappear.
(3) Receive PC signal (VGA(60Hz)), (Aspect Full).
(4) Similarly as (2), select 'RGB(PC)' of Service Adj. Menu, by pressing SEL button. Press ▶ for 2 sec. to do automatic adjustment.

-Remarks
RGB amplitude adj. signal



Black White




Recommended Equipment:
ASTRO VG-823 Digital Video Generator with RB-649 Remote Box.

### 3.2 SUB-CONTRAST ADJUSTMENT

This adjustment is only necessary if picture contrast seems to be deficient, memory initialization was done without making a note of the settings, or if the IC I001 (main micon) or I003 (EEPROM) were changed.

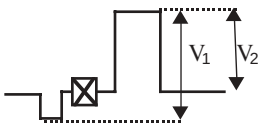
**Preparation**

(1) Receive Sub-contrast adjustment signal (Fig. 1).

**Adjustment**

(1) Select 'SUB CONTRAST' of Service Adj. Menu. Press ▶ for over 2 seconds and have it perform automatic adjustment. When it's completed, 'Auto Adjusting' on the screen will be disappeared.

Fig. 1
Full White




(RF Input ANT A))
$V_1$=1.0 Vp-p (when $V_2$=100IRE)

### 3.3 BRIGHTNESS CHECK

**Preparation**

(1) Start checking 20 minutes or more after the power is turned ON.
(2) Receive the color bar signal.
(3) The vertical incident illumination on the screen should be 20 lux or less.
(4) Picture Format is 16:9 standard mode.
(5) Select Day mode and reset.

**Checking Procedure**

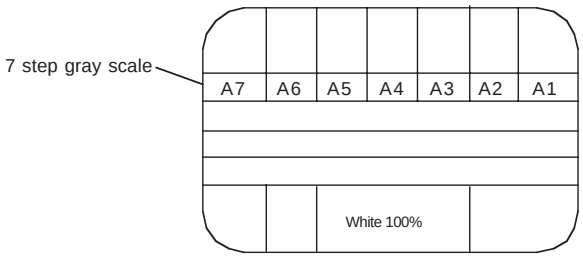
(1) Check the brightness as below.

| | AVC51 |
|---|---|
| Can be seen at black | A3* |
| Can be seen slightly from black | A5* |

Note: If set black level is NG, readjust item 3.1 RGB amp. adj. and 3.2 Sub Contrast adj.

**Measuring Conditions**

(1) At the signal electric field strength $75\pm^{10}_{0}$dBu, the specification mentioned above should be satisfied.
(2) At the input electric field 46-106dBu, there should be no abnormality.
* From color bar pattern below.




Color Bar Signal

A4 has tolerance.
A4 can be between black and Slightly from black.



BACK TO ADJUSTMENTS

## 4 WHITE BALANCE ADJUSTMENTS (PDP MONITOR)

**General Notes for White Balance**

(1) If the incident illumination is more than 20 lux, change the environment (location, lighting, etc.) and ensure it to be less than 20 lux.
(2) At least one of the color drive codes must stay at its maximum value, $FF_H$.

### 4.1 VIDEO COLOR TEMPERATURE ADJUSTMENT (HIGH)

**Preparation 1**

(1) Set the output of signal generator to white raster. (Ratio:100%)
(2) Component signal
Video level: 0.714Vp-p
SYNC: 0.286Vp-p
Set-up level: 0V
(3) Input white raster signal into COMPONENT input terminal of AVC.
(4) Set user control to Day mode. (Picture Mode)
(5) Confirm that the mode is set as "Factory Setting Mode".
(6) Aspect: ① Video: Expanded
② PC: FULL

**Preparation 2**

(1) Set service adjustment menu to "DEVICE ADJUST MODE".
(2) Set WBC to "0". ("PDP" to "WBC")

**Adjustment**

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to "HIGH".
(4) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/G/B DRIVE (HIGH) and adjust the value shown in the following:

| Specification<br>Video Color temperature (HIGH) |
|---|
| x = 0.285 ± 0.005<br>y = 0.298 ± 0.005<br>(Color temp: 9200K) |

At least one of the data should be FF.

**Remarks**

(1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
(2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
(3) Video color temperature & Adjustment No. are the same, but addresses in the memory are different, thus there's no problem.

### 4.2 VIDEO COLOR TEMPERATURE ADJUSTMENT (MEDIUM)

**Preparation**

(1) Same as "Video Color Temperature adjustment: (HIGH)".

**Adjustment**

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to "MEDIUM", using SEL key.
(4) Ensure that Adjustment R/G/B DRIVE (MEDIUM) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (MEDIUM) and adjust the value shown below.

| Specification<br>Video Color temperature (MED) |
|---|
| x = 0.301 ± 0.005<br>y = 0.314 ± 0.005<br>(Color temp: 7500K) |

At least one of the data should be FF.

**Remarks**

(1) Same as "Video Color Temperature adjustment (HIGH)"



BACK TO ADJUSTMENTS

### 4.3 VIDEO COLOR TEMPERATURE ADJUSTMENT (STD)

**Preparation**

(1) Same as “Video Color Temperature adjustment: (HIGH)”.

**Adjustment**

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to “STD”.
(4) Ensure that Adjustment R/G/B DRIVE (STD) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (STD) and adjust the value shown below.

| Specification |
|---|
| Video Color temperature (STD) |
| x = 0.314 ± 0.005 |
| y = 0.327 ± 0.005 |
| (Color temp: 6500K) |

At least one of the data should be FF.

**Remarks**

(1) Same as “Video Color Temperature adjustment (HIGH)”

### 4.4 VIDEO COLOR TEMPERATURE ADJUSTMENT (B/W)

**Preparation**

(1) Same as “Video Color Temperature adjustment: (HIGH)”.

**Adjustment**

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Ensure that Adjustment R/G/B DRIVE (B/W) are all set as FF.
(4) After receiving White Raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (B/W) and adjust the value shown below.

| Specification |
|---|
| Video Color temperature (B/W) |
| x = 0.335 ± 0.005 |
| y = 0.343 ± 0.005 |
| (Color temp: 5400K) |

At least one of the data should be FF.

**Remarks**

(1) Same as “Video Color Temperature adjustment (HIGH)”

### 4.5 PC COLOR TEMPERATURE ADJUSTMENT (HIGH)

**Preparation**

(1) This adjustment should be done after video color temperature adjustment.
(2) Confirm that it’s set as factory adjustment mode.
(3) Input WINDOW signal (window ratio 6.25%) into RGB terminals at VGA (60) 0.7V (No set-up).
(4) Set AVC to shipment.
(5) Confirm that the screen size is ‘FULL’.

**Adjustment**

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as FF.
(4) After receiving PC signal, step down the two (or one) among Adjustment R/B/G DRIVE (HIGH) and adjust the value shown below.

| Specification |
|---|
| PC Color temperature (HIGH) |
| x = 0.285 ± 0.005 |
| y = 0.294 ± 0.005 |
| (Color temp: 9300K) |

At least one of the data should be FF.

(5) Write Adjustment value of video color temperature to the following NO.

| Video Color Temperature | | PC Color Temperature |
|---|---|---|
| R/G/B DRIVE (MEDIUM) data | → | R/G/B DRIVE (MEDIUM) data |
| R/G/B DRIVE (STD) data | → | R/G/B DRIVE (STD) data |
| R/G/B DRIVE (B/W) data | → | R/G/B DRIVE (B/W) data |

**Remarks**

(1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set its maximum.
(2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
(3) Video color temperature & Adjustment No. are the same, but addresses in the memory are different, thus there’s no problem.

### 4.6 COLOR TEMPERATURE CORRECTION SETTING

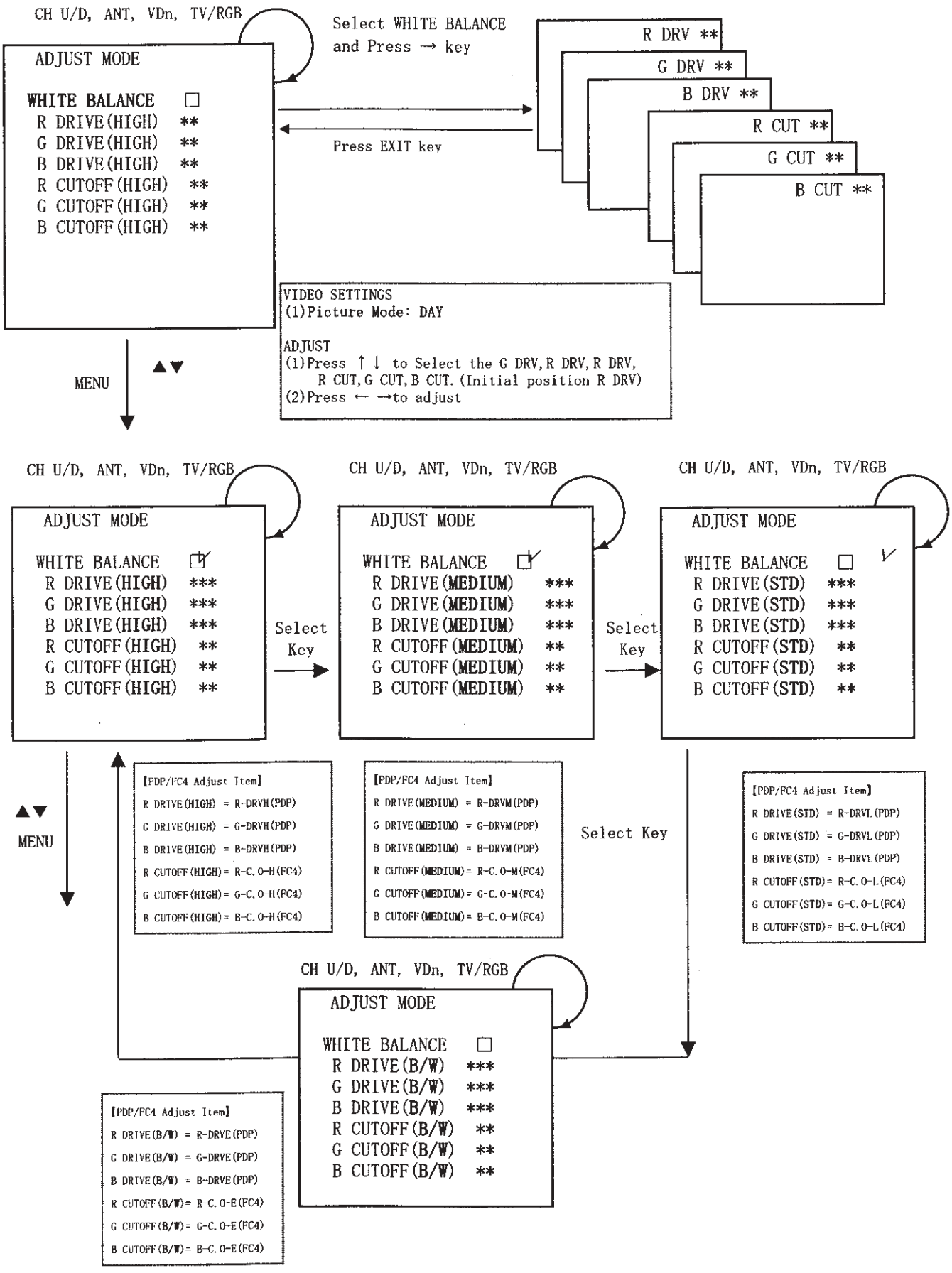
This adjustment should be done after color temperature adjustment.

(1) Set service adjustment menu to “DEVICE ADJUST MODE - PDP”.
(2) Set WBC to “1”. (“PDP” to “WBC”)



BACK TO ADJUSTMENTS

## 4.7 WHITE BALANCE ADJUSTMENT OSD FLOW DIAGRAM






BACK TO ADJUSTMENTS

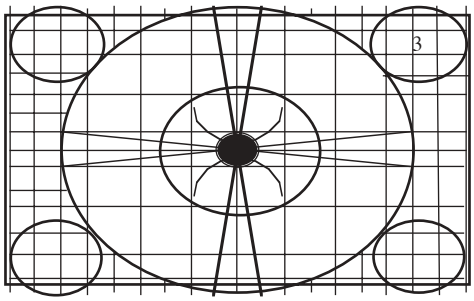
## 5 SCREEN CHECK

**Preparation**

(1) Set AC120±1V.
(2) Turn on the power and leave it more than 5 min.
(3) Receive circle pattern at 4:3 Expanded mode.
(4) Input 480p and 1080i circle pattern into Component 1. (ASPECT 16:9 Standard)
(5) Input XGA (60Hz) circle pattern into RGB. (ASPECT Full)

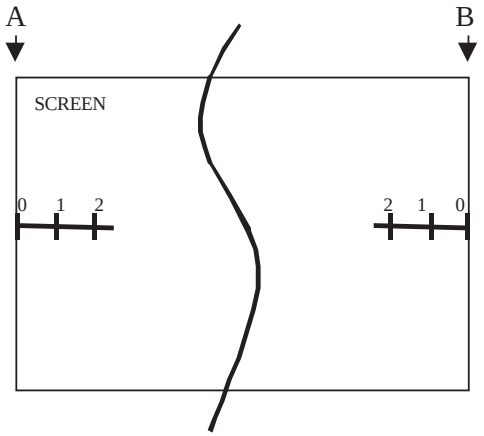
**Checking**

(1) Receive RF, 480p, 1080i and XGA (60Hz) signal, then check the following items 1~4:
   1. Check the symmetry of the pattern (right/left).
   2. Check the horizontal position and the balance (right/left).
   3. Check the symmetry of the pattern (top/bottom).
   4. Check the vertical position and the balance (top/bottom).



**Remarks**

(1) RGB: XGA (60Hz).




| SIGNAL | ASPECT | SPEC(A,B) |
|---|---|---|
| 480i | 4:3 Expanded | 0 +/- 0.5 |
| circle pattern | 16:9 Standard | 0 +/- 0.5 |

## 6. FACTORY RESET

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

(1) Enter Adjustment Mode by the method described in sub-items 1-1 and 1-2 from page 30. (“Adjustment Procedure Start-up”).
(2) From the first menu in Adjustment Mode, select FACT RESET adjustment code.
(3) Activate FACT RESET by pressing “Right” cursor key once.
(4) Check that the receiving channel goes to CH03. Unit is set to factory settings.
(5) This procedure returns user settings to the values and states shown in Table 1 on the following pages.



BACK TO ADJUSTMENTS

**Table 1 - Factory Reset**

| Function | Initial Data/Condition | Note |
|---|---|---|
| NTSC Channel(Main, Sub) | 03Channel | |
| | | |
| Input Mode | Ant A | |
| Sleep Timer | Not Registered | |
| Favorite Channels | Not Registered | |
| Multi Window Mode | Off | |
| PIP Mode | POP (Bottom Right) | Main: NTSC/480i, Sub: NTSC/480i |
| | PIP (Bottom Right) | Main: 1080i, Sub: NTSC/480i |
| Freeze Mode | POP Main Freeze (Bottom Right) | |
| Master Volume | 20 Step | |
| Video | | |
| Picture Mode(Day/Night) | Day | |
| Contrast | 100% | Picture Mode (Day) |
| Brightness | 50% | Picture Mode (Day) |
| Color | 50% | Picture Mode (Day) |
| Tint | 50% | Picture Mode (Day) |
| Sharpness | 50% | Picture Mode (Day) |
| Color Temperature (High/Medium/Standard/Black&White) | High | Picture Mode (Day) |
| Black Enhancement (High/Middle/Low/Off) | Middle | Picture Mode (Day) |
| Contrast Mode | Dynamic | Picture Mode (Day) |
| Color Management | Off | |
| Magenta | 71% | |
| Red | 70% | |
| Yellow | 50% | |
| Green | 50% | |
| Cyan | 40% | |
| Blue | 76% | |
| Color Decoding | RGB | |
| Red | 50% | |
| Green | 50% | |
| Color | 50% | Picture Mode (Day) |
| Tint | 50% | Picture Mode (Day) |
| Auto Color | Off | Picture Mode (Day) |
| Noise Reduction | Low | Picture Mode (Day) |
| Auto Movie Mode | Off | Picture Mode (Day) |
| Audio | | |
| Treble | 50% | |
| Bass | 65% | |
| Balance | 50% | |
| SRS Trubass | Medium | |
| Matrix Surround | Off | |
| Audio Source(Stereo/Mono/SAP) | Stereo | |
| Internal Speakers | On | |
| Auto Noise Cancel | Off | |
| Perfect Volume | Off | |
| Aspect | | |
| 16:9 Sandard, 16:9 Zoom 4:3 Standard, 4:3 Expanded 4:3 Zoom1, 4:3 Zoom2 | 4:3 Standard | On Input Signal (NTSC, 480i, 480p) |
| | 16:9 Sandard | On Input Signal (720p, 1080i) |
| Auto Aspect | Off | |
| Vertical Position | 0 | |
| Channel Manager | | |
| Channel Source Antenna/Cable1/Cable2 | Antenna | |
| Auto Channel Scan Antenna/Cable1/Cable2 | Not Registered | |
| Channel List | | |
| Ant A | | |
| CH ID | Not Registered | |
| Scan | 2_13CH | |
| Lock | Not Registered | |
| Ant B | | |
| CH ID | Not Registered | |
| Scan | 2_13CH | |
| Lock | Not Registered | |

**Table 1 - Factory Reset (Continued)**

| | | |
|---|---|---|
| Channel Lock | Not Registered | |
| Input Lock | Not Registered | |
| Front Panel Lock | Not Registered | |
| TV Time Out | | |
| Start/Stop Time | Not Registered | |
| Repeat(Once/Daily/Weekly) | Not Registered | |
| Movie Rating | Not Registered | |
| TV Rating | Not Registered | |
| TV Rating(Canadian-English) | Not Registered | |
| TV Rating(Canadian-French) | Not Registered | |
| Setup | | |
| Menu Preference | | |
| Menu Language | English | |
| Menu Background | Shaded | |
| Screen Saver | | |
| Main Picture Moving | Option 1 | |
| Screen Wipe | _ | |
| Image Power | Max | |
| Set The Clock | | |
| Time | Not Registered | Sun - -:- - AM |
| | | |
| Set The Inputs | | |
| Input 1 Rename | Not Registered | |
| Input 2 | | |
| Rename | Not Registered | |
| Auto Link(Auto/Remote/Off) | Off | |
| Input 3 Rename | Not Registered | |
| Input 4 Rename | Not Registered | |
| Input 5 Rename | Not Registered | |
| Video Power Save | On | |
| Color System | | |
| YPBPR1 | Auto | On Input Signal |
| YPBPR2 | Auto | On Input Signal |
| | | |
| Black Side Panel | Off | |
| Set Event Timer (Event1/2/3/4) | Not Registered | |
| Set Closed Caption | | |
| Caption Display | Auto | |
| Mode(Captions/Text) | Captions | |
| Channel(1/2/3/4) | Channel 1 | |

| Function | Initial Data/Condition | Check |
|---|---|---|
| PC Mode | | |
| Video | | |
| Contrast | 100% | |
| Brightness | 50% | |
| Color Temperature | High | |
| Enhancer | Off | |
| Setup | | |
| Auto Adjust | _ | |
| Horizontal Position | 0 | |
| Vsertical Position | 0 | |
| Horizontal Clock | 0 | |
| Clock Phase | 0 | |
| Reset | _ | |
| Input Level | 0.7V | |
| Black Side Pnael | Off | |

Table 2 - I²C Adjustment Code and Data

| ADJUSTMENT MODE OSD | ADJUSTMENT ITEM | | ADJUSTMENT RANGE(HEX) | INITIAL DATA(HEX) | ADJUST VALUE(HEX) |
|---|---|---|---|---|---|
| V POSITION | | | | | |
| V POSITION | Vertical Position | 480i | 7E | 3F | |
| | | 480p | 7E | 3F | |
| | | 720p | 7E | 3F | |
| | | 1080i | 7E | 3F | |
| BURN-IN (PDP) | | | | | |
| BURN-IN | PDP Burn-In | | 02 | 01 | |
| WHITE BALANCE (PDP) | | | | | |
| R DRIVE | Red Drive Gain Control | HIGH | FF | - | |
| | | MEDIUM | | - | |
| | | STD | | - | |
| | | B/W | | - | |
| G DRIVE | Green Drive Gain Control | HIGH | FF | - | |
| | | MEDIUM | | - | |
| | | STD | | - | |
| | | B/W | | - | |
| B DRIVE | Blue Drive Gain Control | HIGH | FF | - | |
| | | MEDIUM | | - | |
| | | STD | | - | |
| | | B/W | | - | |
| R CUTOFF | Red Cutoff Control | HIGH | 3E | - | |
| | | MEDIUM | | - | |
| | | STD | | - | |
| G CUTOFF | Green Cutoff Control | HIGH | 3E | - | |
| | | MEDIUM | | - | |
| | | STD | | - | |
| B CUTOFF | Blue Cutoff Control | B/W | 3E | - | |
| | | HIGH | | - | |
| | | MEDIUM | | - | |
| UPD64083 (3D-Y/C) (B9H) Read Mode | | | | | |
| SYNCDET | Sync Detection<br>0: Sync, 1: No Sync | | 01 | - | |
| F-STD | Frame Sync Nonstandard Detection<br>0: Standard, 1: Non standard | | 01 | - | |
| V-STD | Vertical Sync Nonstandard Detection<br>0: Standard, 1: Non standard | | 01 | - | |
| H-STD | Horizontal Sync Nonstandard Detection<br>0: Standard, 1: Non standard | | 01 | - | |
| NOISE | Noise Level Detection<br>00: Noise Small FF: Noise Large | | FF | - | |

Table 2 - I²C Adjustment Code and Data (Continued)

| ADJUSTMENT MODE OSD | ADJUSTMENT ITEM | | ADJUSTMENT RANGE(HEX) | INITIAL DATA(HEX) | ADJUST VALUE(HEX) |
|---|---|---|---|---|---|
| UPD64083 (3D-Y/C) (B8H) | | | | | |
| MSS | Compulsion Frame/Line Setting | | 03 | 00 | |
| CDL-1 | C Signal Delay Adjustment | | 07 | 03 | |
| CDL-3 | C Signal Delay Adjustment | | 07 | 04 | |
| DYCO | Y Motion Detection Coring Level | | 0F | 02 | |
| DYGA | Y Motion Detection Gain | | 0F | 09 | |
| DCCO | C Motion Detection Coring Level | | 0F | 03 | |
| DCGA | C Motion Detection Gain | | 0F | 06 | |
| YNRK | Frame Cycle YNR Non-linear Filter Gain | | 01 | 00 | |
| YNRIN | Frame Cycle YNR Filter | | 01 | 00 | |
| YNRLI | Frame Cycle YNR Non-linear Filter Limit Level | | 03 | 01 | |
| CNRK | Frame Cycle CNR Non-linear Filter Gain | | 01 | 00 | |
| CNRIN | Frame Cycle CNR Filter | | 01 | 00 | |
| CNRLI | Frame Cycle CNR Non-linear Filter Limit Level | | 03 | 01 | |
| VAPGA | Vertical Aperture Control Gain | 32/37/42" | 07 | 04 | |
| APGA | | 50" | 07 | 04 | |
| VAPIN | Vertical Aperture Control Invert | 32/37/42 | 1F | 1F | |
| APIN | | 50" | 1F | 1F | |
| YPFG | Y Peaking Filter Gain | 32/37/42" | 0F | 08 | |
| PFG | | 50" | 0F | 08 | |
| YHC1 | 32/37/42" Y Output High Frequency Coring | TV, NR <> High | 03 | 00 | |
| YHC1-NR | | TV, NR = High | 03 | 02 | |
| YHC3 | | NTSC,NR <> High | 03 | 00 | |
| YHC3-NR | | NTSC,NR = High | 03 | 02 | |
| HC1 | 50" Y Output High Frequency Coring | TV, NR <> High | 03 | 00 | |
| HC1-NR | | TV, NR = High | 03 | 02 | |
| HC3 | | NTSC,NR <> High | 03 | 00 | |
| HC3-NR | | NTSC,NR = High | 03 | 02 | |
| TA1383F Main Read Mode (D9H) | | | | | |
| HSYNC-M | Main H-Sync Signal | | FF | - | |
| VSYNC-M | Main V-Sync Signal | | 7F | - | |
| CSYNC-M | Main C-Sync Signal | | 01 | - | |
| TA1383F SUB Read Mode | | | | | |
| HSYNC-S | Sub H-Sync Signal | | FF | - | |
| VSYNC-S | Sub V-Sync Signal | | 7F | - | |
| CSYNC-S | Sub C-Sync Signal | | 01 | - | |
| TA1383F MAIN (D8H) | | | | | |
| M-CONT4 | Sub Contrast Control 00: MIN(-3dB) 1F: MAX(+3dB) | TV/NTSC | 1F | 0F | i3* |
| M-CONTP | | 480i/480p SDTV | 1F | 13 | |
| M-CONTG | | 720p/1080i HDTV | 3F | 21 | |
| M-CLR-4 | Sub Color Control 32/37/42" 00: MIN(-3dB) 1F: MAX(+3dB) | TV/NTSC | 1F | 1C | |
| M-CLR-P | | 480i/480p SDTV | 1F | 1A | |
| M-CLR-G | | 720p/1080i HDTV | 1F | 1E | |
| MCLR-4 | Sub Color Control 50" 00: MIN(-3dB) 1F: MAX(+3dB) | TV/NTSC | 1F | 1C | |
| MCLR-P | | 480i/480p SDTV | 1F | 1A | |
| MCLR-G | | 720p/1080i HDTV | 1F | 1E | |
| MTINT-4 | Sub Tint Control 0: MIN(-7deg) F: MAX(+7deg) | TV/NTSC | 0F | 09 | |
| MTINT-P | | 480i/480p SDTV | 0F | 0A | |

* This data is an approximate service code data. This value is adjusted by 3.2 SUB-CONTRAST ADJUSTMENT.

Table 2 - I²C Adjustment Code and Data (Continued)

| | | | | | |
|---|---|---|---|---|---|
| MTINT-G | | 720p/1080i HDTV | 0F | 07 | |
| MYBLAC4 | Main Y Black Level Control<br>00: OFF 01: MIN_FE: MAX | TV/NTSC | FE | B5 | |
| MYBLACD | | 480i/480p720p/1080i | FE | 00 | |
| MTOFF00 | Main NTSC TOF Center Frequency Switch<br>0: OFF, 1: MIN(0.8 fsc)<br>7: MAX(1.5 fsc) | TV/NTSC | 07 | 00 | |
| MTOFQ-0 | Main NTSC TOF Q Characteristic Switch<br>0: MIN(0.6), 7: MAX(1.2) | TV/NTSC | 07 | 00 | |
| TA1383F SUB (DAH) | | | | | |
| S-CONT4 | Sub Contrast Control<br>00: MIN(-3dB)<br>1F: MAX(+3dB) | TV/NTSC | 1F | 15 | 12* |
| S-CONTP | | 480i/480p SDTV | 1F | 18 | |
| S-CONTG | | 720p/1080i HDTV | 3F | 20 | |
| S-CLR-4 | Sub Color Control 32/37/42"<br>00: MIN(-3dB)<br>1F: MAX(+3dB) | TV/NTSC | 1F | 1C | |
| S-CLR-P | | 480i/480p SDTV | 1F | 1A | |
| S-CLR-G | | 720p/1080i HDTV | 1F | 1E | |
| SCLR-4 | Sub Color Control 50"<br>00: MIN(-3dB)<br>1F: MAX(+3dB) | TV/NTSC | 1F | 1C | |
| SCLR-P | | 480i/480p SDTV | 1F | 1A | |
| SCLR-G | | 720p/1080i HDTV | 1F | 1E | |
| STINT-4 | Sub Tint Control<br>0: MIN(-7deg)<br>F: MAX(+7deg) | TV/NTSC | 0F | 09 | |
| STINT-P | | 480i/480p SDTV | 0F | 0A | |
| STINT-G | | 720p/1080i HDTV | 0F | 07 | |
| SYBLAC4 | Sub Y Black Level Control<br>00: OFF 01: MIN_FE: MAX | TV/NTSC | FE | B5 | |
| SYBLACD | | 480i/480p720p/1080i | FE | 00 | |
| STOFF00 | Main NTSC TOF Center Frequency Switch<br>0: OFF, 1: MIN(0.8 fsc)<br>7: MAX(1.5 fsc) | TV/NTSC | 07 | 00 | |
| STOFQ-0 | Main NTSC TOF Q Characteristic Switch<br>0: MIN(0.6), 7: MAX(1.2) | TV/NTSC | 07 | 00 | |
| TA1383F MAIN/SUB D8H/DAH | | | | | |
| Y-DL1-4 | Y Delay Time Adjust 1 Base Band Section<br>0: -10 ns, 1: 0 ns<br>2: +10 ns, 3: +20 ns | TV/NTSC | 03 | 01 | |
| Y-DL1-D | | 480i/480p/720p/1080i/Bypass(YPBPR/DVI) | 03 | 00 | |
| Y-DL2-0 | Y Delay Time Adjust 2 NTSC Section<br>0: OFF, 1: +40 ns<br>2: +80 ns, 3: +120 ns | ALL | 03 | 00 | |
| BBLACKM | 32/37/42"<br>CB(PB) Black Level Control<br>00: OFF 01: MIN_FE: MAX | TV/NTSC/480i | FE | 00 | |
| BBLACK6 | | 480p | FE | 00 | |
| BBLACK7 | | 720p | FE | 00 | |
| BBLACK8 | | 1080i | FE | 00 | |
| RBLACKM | 32/37/42"<br>CR(PR) Black Level Control<br>00: OFF 01: MIN_FE: MAX | TV/NTSC/480i | FE | 00 | |
| RBLACK6 | | 480p | FE | 00 | |
| RBLACK7 | | 720p | FE | 00 | |
| RBLACK8 | | 1080i | FE | 00 | |
| AFCRAN4 | Horizontal AFC Switch<br>0: Normal<br>1: Narrow | TV/NTSC | 01 | 00 | |
| AFCRAND | | 480i/480p/720p/1080i/Bypass(YPBPR/DVI) | 01 | 00 | |
| F-DET-4 | Frequency Detection Input Switch<br>0: 480i-1 NTSC<br>1: 480i-2 NTSC<br>2: D-SYNC2 3: HD/VD | TV/NTSC | 03 | 00 | |
| F-DET-D | | 480i/480p/720p/1080i/Bypass(YPBPR/DVI) | 03 | 02 | |

* This data is an approximate service code data. This value is adjusted by 3.2 SUB-CONTRAST ADJUSTMENT.

Table 2 - I²C Adjustment Code and Data (Continued)

| | | | | | |
|---|---|---|---|---|---|
| HSEPL-4 | Horizontal Sync Separation Level Switch<br>0: 20%, 1: 27%<br>2: 34%, 3: 40% | TV/NTSC | 03 | 00 | |
| HSEPL-5 | | 480i | 03 | 00 | |
| HSEPL-6 | | 480p | 03 | 00 | |
| HSEPL-C | | 720p/1080i/Bypass | 03 | 00 | |
| VSEPL-4 | Vertical Sync Separation Level switch<br>0: 40%, 1: 50%<br>2: 60%, 3: 70% | TV/NTSC | 03 | 00 | |
| VSEPL-5 | | 480i | 03 | 00 | |
| VSEPL-6 | | 480p | 03 | 00 | |
| VSEPL-C | | 720p/1080i/Bypass | 03 | 00 | |
| DSEPL-A | D-SYNC2-IN Sync Separation Level Switch<br>0: 20%, 1: 30%<br>2: 40%, 3: 50% | 480i/480p | 03 | 00 | |
| DSEPL-C | | 720p/1080i/Bypass | 03 | 00 | |
| AFCMD-L | AFC Gain Switch<br>0: AUTO 1, 1: AUTO 2<br>2: AUTO 3,3: AUTO 4,4:+6dB,5:<br>0 dB, 6: -12 dB<br>7: OFF(Horizontal Free Run≈j | TV | 07 | 06 | |
| AFCMD-3 | | NTSC | 07 | 02 | |
| AFCMD-D | | 480i/480p/720p/1080i/<br>Bypass | 07 | 02 | |
| VMODE-4 | Vertical Sync Mode Switch<br>0: Normal PLL Mode<br>1: Sync Output Mode | TV/NTSC | 01 | 00 | |
| VMODE-5 | | 480i | 01 | 00 | |
| 48ISEP4 | 480i Separator Mode Switch<br>0: ON, 1: OFF | TV/NTSC | 01 | 00 | |
| B.WM | 32/37/42"<br>Band Width Filter Switch<br>0: OFF, 1: 11.3MHz/-3dB<br>2: 16MHz/-3dB, 3: Mute | TV/NTSC/480i | 03 | 02 | |
| B.WM-NR | | TV/NTSC/480i -NR | 03 | 01 | |
| B.WN | | 480p/720p/1080i | 03 | 00 | |
| B.WN-NR | | 480p/720p/1080i -NR | 03 | 02 | |
| BWM | 50"<br>Band Width Filter Switch<br>0: OFF, 1: 11.3MHz/-3dB<br>2: 16MHz/-3dB, 3: Mute | TV/NTSC/480i | 03 | 02 | |
| BWM-NR | | TV/NTSC/480i -NR | 03 | 01 | |
| BWN | | 480p/720p/1080i | 03 | 00 | |
| BWN-NR | | 480p/720p/1080i -NR | 03 | 02 | |
| HDPOSI4 | HD Output Phase Adjustment<br>0: 800 ns Advance<br>F: Sync Center | TV/NTSC | 0F | 08 | |
| HDPOSI5 | | 480i | 0F | 09 | |
| HDPOSI6 | | 480p | 0F | 01 | |
| HDPOSI7 | | 720p | 0F | 00 | |
| HDPOSIK | | 1080i/Bypass | 0F | 00 | |
| OSD-HP | OSD Horizontal Position | | 0F | 07 | |
| OSD-VP | OSD Vertical Position | | 0F | 07 | |
| CCD-HP | CCD Horizontal Position | | 4F | 39 | |
| CCD-VP | CCD Vertical Position (not available) | | 7F | 18 | |

Table 2 - I²C Adjustment Code and Data (Continued)

| ADJUSTMENT MODE OSD | ADJUSTMENT ITEM | | ADJUSTMENT RANGE(HEX) | INITIAL DATA(HEX) | ADJUST VALUE(HEX) |
|---|---|---|---|---|---|
| PDP | | | | | |
| R-DRVH | Red Drive Gain Adjustment (HIGH) | | FF | FF | |
| G-DRVH | Green Drive Gain Adjustment (HIGH) | | FF | FF | |
| B-DRVH | Blue Drive Gain Adjustment (HIGH) | | FF | FF | |
| R-DRVM | Red Drive Gain Adjustment (MEDIUM) | | FF | FF | |
| G-DRVM | Green Drive Gain Adjustment (MEDIUM) | | FF | FF | |
| B-DRVM | Blue Drive Gain Adjustment (MEDIUM) | | FF | FF | |
| R-DRVL | Red Drive Gain Adjustment (STD) | | FF | FF | |
| G-DRVL | Green Drive Gain Adjustment (STD) | | FF | FF | |
| B-DRVL | Blue Drive Gain Adjustment (STD) | | FF | FF | |
| R-DRVE | Red Drive Gain Adjustment (B/W) | | FF | FF | |
| G-DRVE | Green Drive Gain Adjustment (B/W) | | FF | FF | |
| B-DRVE | Blue Drive Gain Adjustment (B/W) | | FF | FF | |
| GAMMA-D | gamma selection | TV/Video | 02 | 01 | |
| GAMMA-H | 0:1.0, 1:2.2, 2:2.8 | PC | 02 | 01 | |
| BURN-IN | Burn-In Mode | | 02 | 01 | |
| APC32 | APC Control 32" | | 01 | 00 | |
| APC3742 | APC Control 37/42" | | 01 | 00 | |
| PDP-VER | PDP Microcomputer Version Display | | 03E7 | - | |
| PDP-TM | PDP Panel Drive Time | | FFFF | - | |
| CCFMD-D | Brightness/Gradation Priority Switch | TV/VID | 01 | 00 | |
| CCFMD-H | | PC | 01 | 00 | |
| CCFORMF | NTSC/EBU Switch | SDTV | 01 | 00 | |
| CCFORMG | | HDTV | 01 | 00 | |
| CCFORMH | | PC | 01 | 00 | |
| DCBONH | Tracking Adjustment Switch | TV/VID Col.Temp:High | 01 | 00 | |
| DCBONML | | TV/VID Col.Temp:Med/Std/BW | 01 | 01 | |
| DCBON-H | | PC | 01 | 01 | |
| WBC | White Balance Correction | | 03 | - | |
| HAPC | Heat APC Selection | | 01 | 01 | |
| Q.MODE | Q.MODE 0:On,1:Off 32/37/42":valid,50":invalid | | 01 | 00 | |
| V CHIP | | | | | |
| SMPLING | Rating Detection Sampling Time T1=32xN ms | | FE | 00 | |
| POLLING | Rating Detection Polling Counter | | FE | 0F | |
| START | Rating Block Start Counter | | 07 | 02 | |
| TIMEOUT | Rating Block Release Timeout | | 1E | 05 | |
| STATUS | Rating Block Release Counter | | 07 | 02 | |
| IR BLASTER | | | | | |
| IRDELAY | IR Start Delay Time | | 10 | 03 | |
| IRREPT | IR Send Data Repeat Time | | 80 | 20 | |
| Sync Frequency Detection | | | | | |
| HFRQ-N | The number of times of Sync Frequency | | 0F | 03 | |

Table 2 - I²C Adjustment Code and Data (Continued)

| ADJUSTMENT MODE OSD | ADJUSTMENT ITEM | | ADJUSTMENT RANGE(HEX) | INITIAL DATA(HEX) | ADJUST VALUE(HEX) |
|---|---|---|---|---|---|
| FC4 Read Mode | | | | | |
| TVCINE | TV≈Cinema Detection display On=1 | | 01 | - | |
| MAXLVL1 | Maximum input level(Main) display | | FE | - | |
| MAXLVL2 | Maximum input level(Sub ) display | | FE | - | |
| FC4 | | | | | |
| SHP-L | 32/37/42" Sharpness | TV | 1F | 1F | |
| SHPL-NR | | TV-NR | 1F | 0D | |
| SHP-3 | | NTSC | 1F | 14 | |
| SHP-5 | | 480i | 1F | 14 | |
| SHP3-NR | | NTSC-NR | 1F | 0B | |
| SHP5-NR | | 480i-NR | 1F | 0B | |
| SHP-6 | | 480p | 1F | 0E | |
| SHP-7 | | 720p | 1F | 0B | |
| SHP-8 | | 1080i | 1F | 0B | |
| SHPN-NR | | 480p/720p/1080i-NR | 1F | 06 | |
| HP-L | 50" Sharpness | TV | 1F | 1F | |
| HPL-NR | | TV-NR | 1F | 0D | |
| HP-3 | | NTSC | 1F | 14 | |
| HP-5 | | 480i | 1F | 14 | |
| HP3-NR | | NTSC-NR | 1F | 0B | |
| HP5-NR | | 480i-NR | 1F | 0B | |
| HP-6 | | 480p | 1F | 0E | |
| HP-7 | | 720p | 1F | 0B | |
| HP-8 | | 1080i | 1F | 0B | |
| HPN-NR | | 480p/720p/1080i-NR | 1F | 06 | |
| H.EL | 32/37/42" Horizontal Enhance Gain 0_3 Gain | TV | 03 | 00 | |
| H.EL-NR | | TV | 03 | 00 | |
| H.E3 | | NTSC | 03 | 01 | |
| H.E5 | | 480i | 03 | 00 | |
| H.E3-NR | | NTSC-NR | 03 | 00 | |
| H.E5-NR | | 480i-NR | 03 | 00 | |
| H.EB | | 720p/1080i | 03 | 03 | |
| H.E6 | | 480P | 03 | 03 | |
| H.EN-NR | | 480p/720p/1080i-NR | 03 | 00 | |
| HEL | 50" Horizontal Enhance Gain 0_3 Gain | TV | 03 | 00 | |
| HEL-NR | | TV-NR | 03 | 00 | |
| HE3 | | NTSC | 03 | 01 | |
| HE5 | | 480i | 03 | 00 | |
| HE3-NR | | NTSC-NR | 03 | 00 | |
| HE5-NR | | 480i-NR | 03 | 00 | |
| HEB | | 720p/1080i | 03 | 03 | |
| HE6 | | 480P | 03 | 03 | |
| HEN-NR | | 480p/720p/1080i-NR | 03 | 00 | |

Table 2 - I²C Adjustment Code and Data (Continued)

| | | | | | |
|---|---|---|---|---|---|
| V.EL | 32/37/42" Vertical Enhance Gain 0_3 Gain | TV | 03 | 00 | |
| V.EL-NR | | TV-NR | 03 | 00 | |
| V.E3 | | NTSC | 03 | 03 | |
| V.E5 | | 480i/480p | 03 | 03 | |
| V.E3-NR | | NTSC-NR | 03 | 00 | |
| V.E5-NR | | 480i-NR | 03 | 00 | |
| V.EB | | 720p/1080i | 03 | 00 | |
| V.E6 | | 480P | 03 | 03 | |
| V.EN-NR | | 480p/720p/1080i-NR | 03 | 00 | |
| VEL | 50" Vertical Enhance Gain 0_3 Gain | TV | 03 | 00 | |
| VEL-NR | | TV-NR | 03 | 00 | |
| VE3 | | NTSC | 03 | 03 | |
| VE5 | | 480i/480p | 03 | 03 | |
| VE3-NR | | NTSC-NR | 03 | 00 | |
| VE5-NR | | 480i-NR | 03 | 00 | |
| VEB | | 720p/1080i | 03 | 00 | |
| VE6 | | 480P | 03 | 03 | |
| VEN-NR | | 480p/720p/1080i-NR | 03 | 00 | |
| CVHE-L | C V H Enhance GAIN 0_31 Gain | TV | 1F | 10 | |
| CVHE-M | | NTSC/480i | 1F | 10 | |
| CVHE-N | | 480p/720p/1080i | 1F | 0D | |
| YNR-LVL | YNR Input Level 0:OFF 1_7:Input Gain | TV | 07 | 04 | |
| YNR-LV3 | | NTSC | 07 | 04 | |
| YNR-LV5 | | 480i | 07 | 04 | |
| YNR-LV6 | | 480p | 07 | 04 | |
| YNR-LVB | | 720p/1080i | 07 | 04 | |
| CNR-LVL | CNR Input Level 0:OFF 1_7:Input Gain | TV | 07 | 04 | |
| CNR-LV3 | | NTSC | 07 | 04 | |
| CNR-LV5 | | 480i | 07 | 01 | |
| CNR-LV6 | | 480p | 07 | 01 | |
| CNR-LVB | | 720p/1080i | 07 | 01 | |
| V-POSI7 | TV Vertical Position 0:-63_63:0_126:+63 | 720p | 7E | 3F | |
| V-POSI8 | | 1080i | 7E | 3F | |
| BLK-LV4 | Brightness Amp 0:-127_127:0_254:+127 | TV/NTSC | FE | 7F | |
| BLK-LVD | | 480i/480p/720p/1080i/Bypass | FE | 7F | |
| BLK-LVH | | PC | FE | 7F | |
| RGBAMPD | Contrast Amp 0:-127_127:0_254:+127 | TV/Video | FE | 7F | |
| RGBAMPH | | PC | FE | 7F | |
| BRTCEN4 | 32/37/42" Brightness | TV/NTSC/Multi | FE | 80 | |
| BRTCENA | | 480i/480p | FE | 7C | |
| BRTCENB | | 720p/1080i | FE | 7C | |
| BRTCENH | | PC | FE | 80 | |
| RTCEN4 | 50" Brightness | TV/NTSC/Multi | FE | 85 | |
| RTCENA | | 480i/480p | FE | 81 | |
| RTCENB | | 720p/1080i | FE | 81 | |
| RTCENH | | PC | FE | 80 | |
| CNTCEN4 | Contrast | TV/NTSC | FE | 89 | |
| CNTCEND | | 480i/480p/720p/1080i | FE | 89 | |
| CNTCENH | | PC | FE | 80 | |
| CNTCENE | | offset at SPLIT | FE | 3C | |

Table 2 - I²C Adjustment Code and Data (Continued)

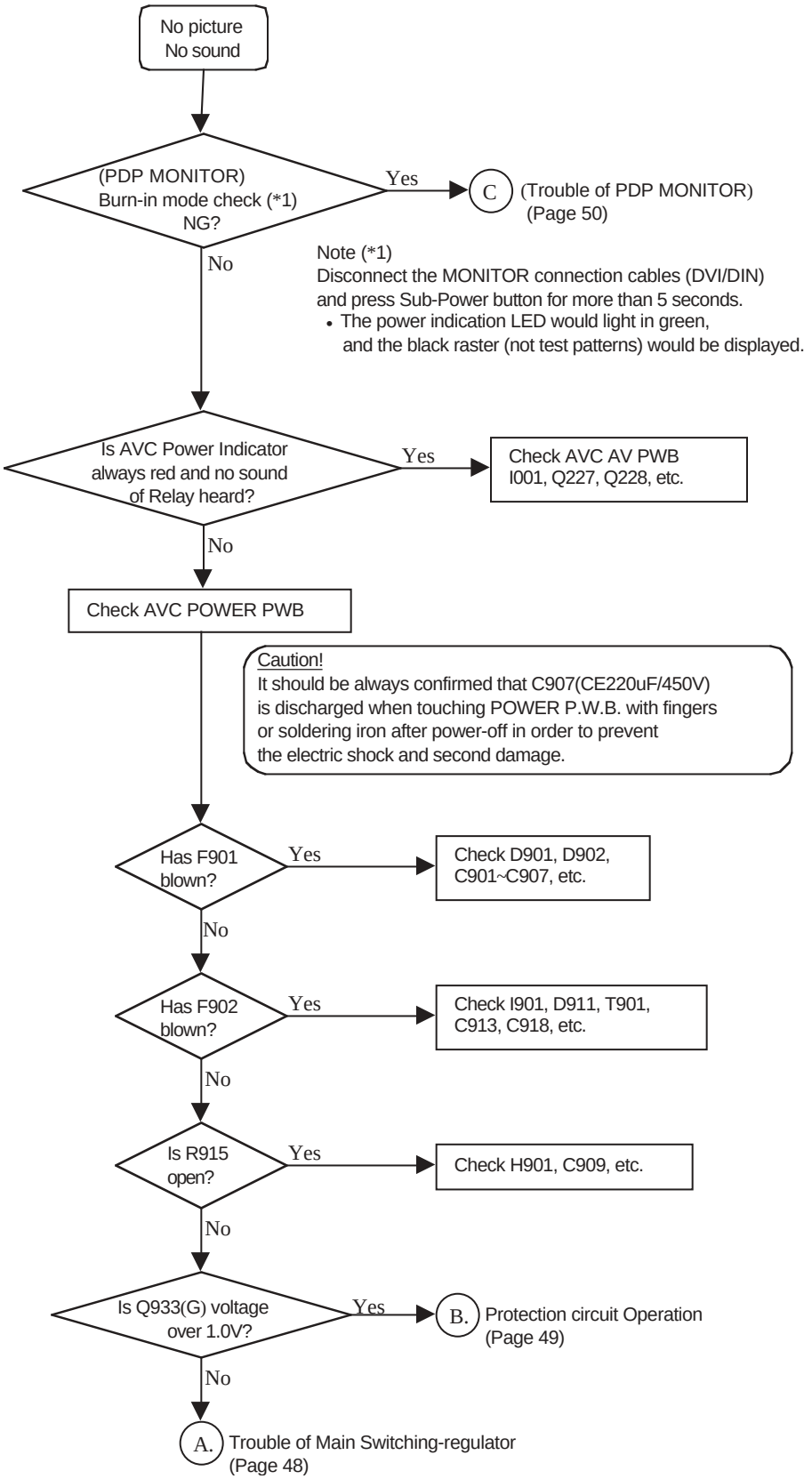
| | | | | | |
|---|---|---|---|---|---|
| NRMLCNT | Brightness max | Normal/Real | FE | BC | |
| BSGOFS | Black Stretch Gain Offset | ALL | 3F | 1F | |
| COLOR-F | Color | SDTV(NT1/NT2/HD3/HD4/HD6) | 7F | 55 | |
| COLOR-G | | HDTV(NT3/HD2/HD1/HD5) | 7F | 5E | |
| TINT-F | Tint 32/37/42" | SDTV(NT1/NT2/HD3/HD4/HD6) | FE | 89 | |
| TINT-G | | HDTV(NT3/HD2/HD1/HD5) | FE | 81 | |
| INT-F | Tint 50" | SDTV(NT1/NT2/HD3/HD4/HD6) | FE | 8E | |
| INT-G | | HDTV(NT3/HD2/HD1/HD5) | FE | 8A | |
| HDMODE8 | not use | HD1/HD4 | 01 | 00 | |
| FLAON | Automatic Signal Adjustment | | _ | _ | |
| R-C.O-H | R Gamma Offset | C.Temp=High | 3E | 1F | |
| G-C.O-H | G Gamma Offset | | 3E | 1F | |
| B-C.O-H | B Gamma Offset | | 3E | 1F | |
| R-C.O-M | R Gamma Offset | C.Temp=Medium | 3E | 1F | |
| G-C.O-M | G Gamma Offset | | 3E | 1F | |
| B-C.O-M | B Gamma Offset | | 3E | 1F | |
| R-C.O-L | R Gamma Offset | C.Temp=Low | 3E | 1F | |
| G-C.O-L | G Gamma Offset | | 3E | 1F | |
| B-C.O-L | B Gamma Offset | | 3E | 1F | |
| R-C.O-E | R Gamma Offset | C.Temp=B/W | 3E | 1F | |
| G-C.O-E | G Gamma Offset | | 3E | 1F | |
| B-C.O-E | B Gamma Offset | | 3E | 1F | |
| FC4.ORG | FC4 Adjustment MENU | | _ | _ | |
| ETC | | | | | |
| POWSAVE | PC Power Save 0:OFF 1:ON | | 01 | 01 | |
| POWS-TM | PC Power Save Timer (second) | | FE | 0F | |
| INPUT1 | Main: YPbPr freq. detection fixed mode | | 04 | 00 | |
| INPUT2 | Sub : YPbPr freq. detection fixed mode | | 04 | 00 | |
| S.CSTEP | Sub Contrast adjustment step | | FE | 06 | |
| S.C-UP | Sub Contrast adjustment maximum limit | | FE | E6 | |
| S.C-LOW | Sub Contrast adjustment minimum limit | | FE | E0 | |
| M-MAX | Main:maximum luminosity display | | FE | * | |
| S-MAX | Sub :maximum luminosity display | | FE | * | |
| TA1383 | TA1383F/TA1340F selection TA1383:1,TA1340:0 | | 01 | 01 | |
| ID1-CCD | VideoID read data(CCD core S/W)<br>0:4x3,1:16x9,2:LB,3:(no use),4:NoData | | 04 | * | |
| ID1-3D | VideoID read data(3DYC IC)<br>0:4x3(No Data),1:16x9,2:LB,3:(no use) | | 03 | * | |
| M-CONTQ | TA1383F:<br>Sub Contrast Control<br>00: MIN(-3dB)<br>1F: MAX(+3dB) | 480i/480p(DVI) | 1F | 0E | |
| M-CONTR | | VGA(DVI) | 1F | 07 | |
| M-CONTS | | 720p/1080i(DVI) | 1F | 0E | |
| M-CLR-R | Sub Color Control 32/37/42 | VGA(DVI) | 1F | 0F | |
| MCLR-R | Sub Color Control 50 | VGA(DVI) | 1F | 0F | |
| S-CONTQ | TA1383F:<br>Sub Contrast Control<br>00: MIN(-3dB)<br>1F: MAX(+3dB) | 480i/480p(DVI) | 1F | 13 | |
| S-CONTR | | VGA(DVI) | 1F | 0C | |

Table 2 - I²C Adjustment Code and Data (Continued)

| | | | | | |
|---|---|---|---|---|---|
| S-CONTS | | 720p/1080i(DVI) | 1F | 13 | |
| S-CLR-R | Sub Color Control 32/37/42 | VGA(DVI) | 1F | 0D | |
| SCLR-R | Sub Color Control 50 | VGA(DVI) | 1F | 0D | |
| V-POSI5 | FC4: Vertical Position | 480i | 44 | 3F | |
| V-POSI6 | | 480p | 44 | 3F | |
| BBLCKM | TA1383F 50" CB(PB) Black Level Control 00: OFF 01: MIN_FE: MAX | TV/NTSC/480i | FE | 00 | |
| BBLCK6 | | 480p | FE | 00 | |
| BBLCK7 | | 720p | FE | 00 | |
| BBLCK8 | | 1080i | FE | 00 | |

| | | | | | |
|---|---|---|---|---|---|
| RBLCKM | TA1383F 50" CR(PR) Black Level Control 00: OFF 01: MIN_FE: MAX | TV/NTSC/480i | FE | 00 | |
| RBLCK6 | | 480p | FE | 00 | |
| RBLCK7 | | 720p | FE | 00 | |
| RBLCK8 | | 1080i | FE | 00 | |
| BBLACKQ | 32/37/42" CB(PB) Black Level Control 00: OFF 01: MIN_FE: MAX | DVI(480i/480p) | FE | 00 | |
| BBLACKS | | DVI(720p/1080i) | FE | 00 | |
| RBLACKQ | 32/37/42" CR(PR) Black Level Control 00: OFF 01: MIN_FE: MAX | DVI(480i/480p) | FE | 00 | |
| RBLACKS | | DVI(720p/1080i) | FE | 00 | |
| BBLCKQ | 50" CB(PB) Black Level Control 00: OFF 01: MIN_FE: MAX | DVI(480i/480p) | FE | 00 | |
| BBLCKS | | DVI(720p/1080i) | FE | 00 | |
| RBLCKQ | 50" CR(PR) Black Level Control 00: OFF 01: MIN_FE: MAX | DVI(480i/480p) | FE | 00 | |
| RBLCKS | | DVI(720p/1080i) | FE | 00 | |
| DUMMY0 | dummy | | FF | FF | |
| DUMMY1 | dummy | | FF | FF | |
| DUMMY2 | dummy | | FF | FF | |
| DUMMY3 | dummy | | FF | FF | |
| DUMMY4 | dummy | | FF | FF | |
| DUMMY5 | dummy | | FF | FF | |
| DUMMY6 | dummy | | FF | FF | |
| DUMMY7 | dummy | | FF | FF | |
| DUMMY8 | dummy | | FF | FF | |

## TROUBLESHOOTING FLOWCHARTS
(1 OF 4)



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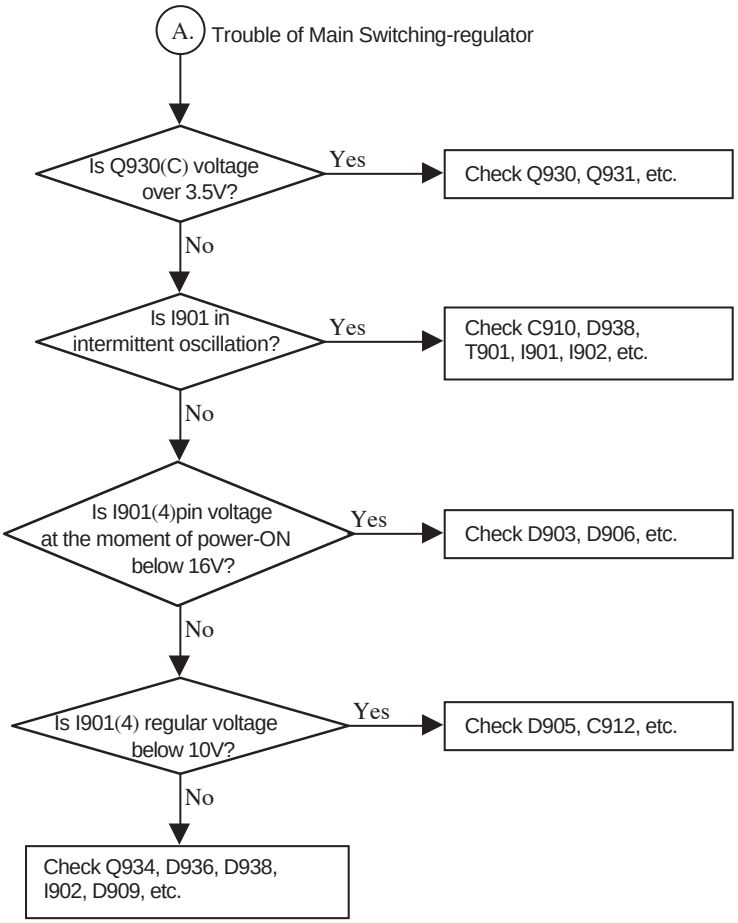
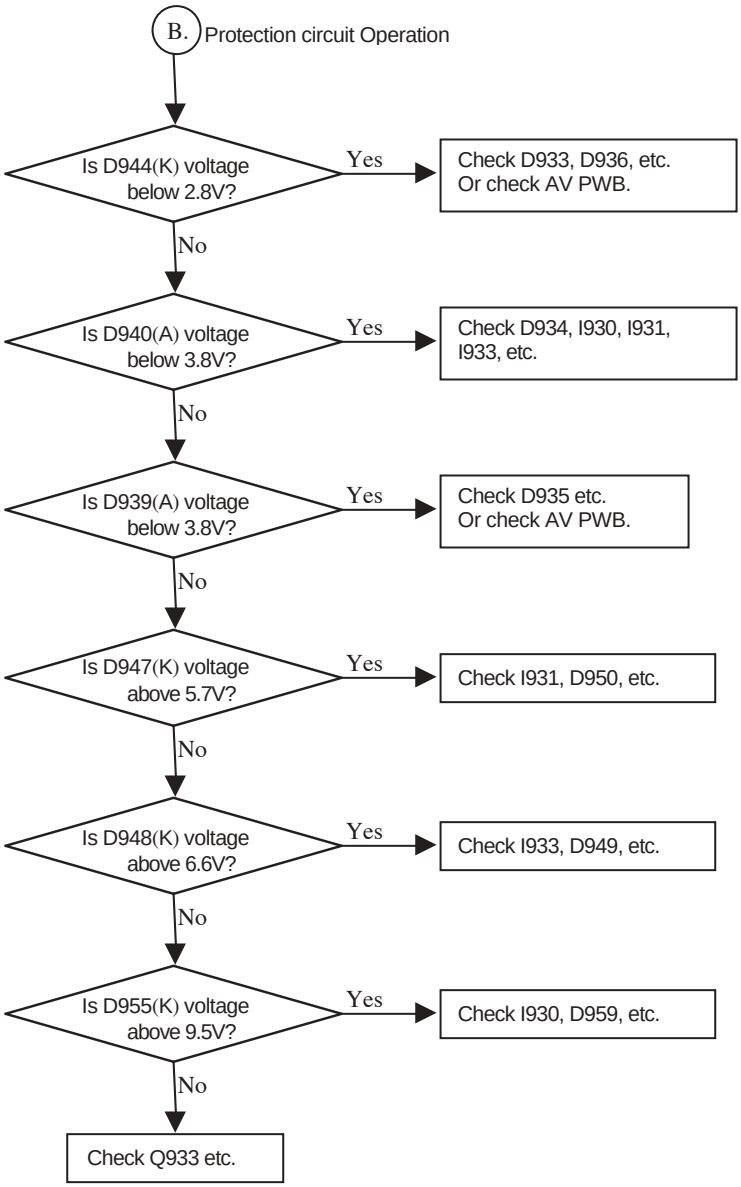
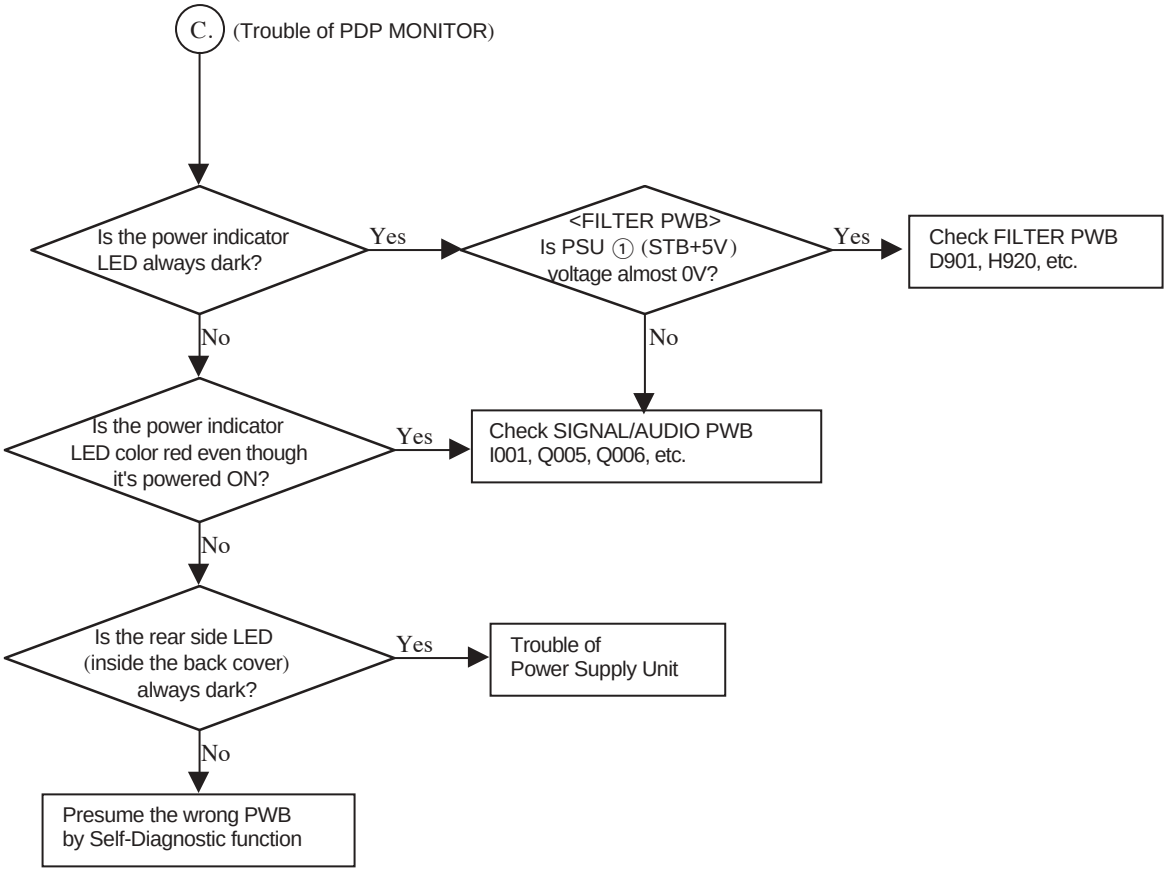
## TROUBLESHOOTING FLOWCHARTS
(2 OF 4)



**TROUBLESHOOTING FLOWCHARTS**
(3 OF 4)



**TROUBLESHOOTING FLOWCHARTS**
(4 OF 4)



**SELF DIAGNOSTIC FUNCTION**

**• PDP Monitor**

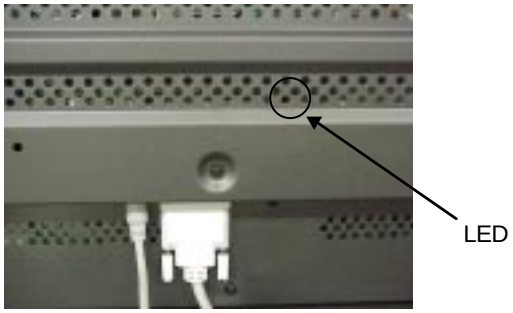
NOTE: Disconnect the MONITOR connection cables (DVI/DIN) and press Sub-Power button for more than 5 seconds.
• The power indication LED would light in green, and the black raster (not test patterns) would be displayed.

The blinks of the LED on the panel unit indicate a PDP monitor failure with no picture.

The LED is inside the back cover, but it would be found through the hole at the position shown as below:

| LED condition | Monitor condition |
|---|---|
| Lighting (Green) | Normal (Power ON) |
| Lighting (Red) | Normal (Standby) |
| Blinking (Green or Red) | Failure |

Rear side of PDP




The next table(1) shows the PDP PWB in which failure most probably would be allocated according to the number of red blinks. And the table(2) shows the error mode according to the number of green blinks.

(1) LED color: Red

| Number of blinks | Presumed failing PWB |
|---|---|
| 1 | Y DRIVE |
| 2 | |
| 3 | X DRIVE |
| 4 | |
| 5 | POWER SUPPLY |
| 6 | ADDRESS |
| 7 | |
| 8 | DIGITAL VIDEO |

(2) LED color: Green

| Number of blinks | Error mode |
|---|---|
| 1* | Internal |
| 2 | Communication error |
| 4 | Abnormal temperature |

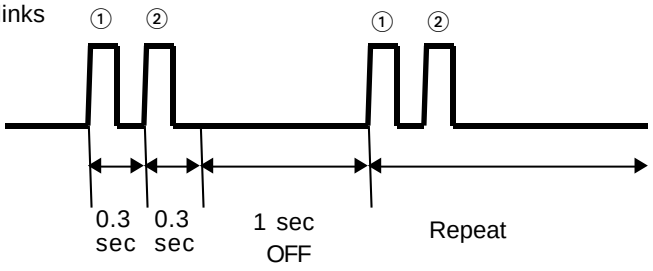
* PDP Panel Microcomputer no good.
DIGITAL VIDEO PWB - I²C Communication no good.

Please turn off the Main Power switch when the LED blinks, and turn it on again after 1 minute.

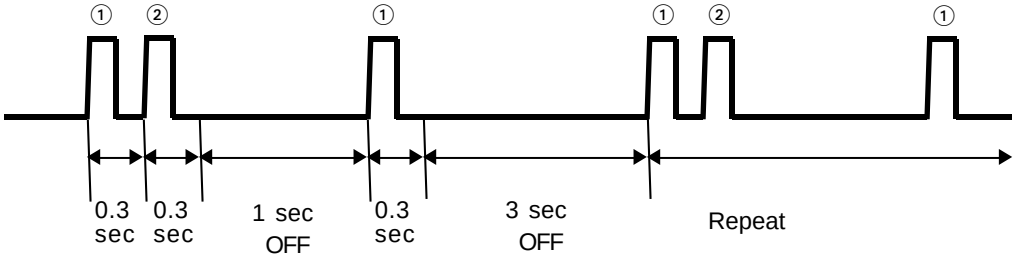
Then if the LED still blinks, the Monitor has some trouble.

[Blinking condition of the LED]

ex. 2 blinks



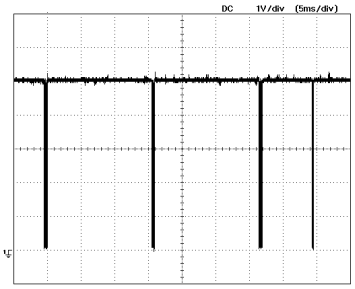

ex. 2 blinks and 1 blink (It would be indicated alternately when 2 detectors operated)



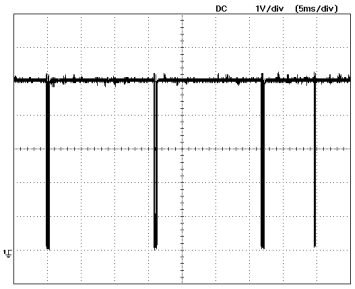
# WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

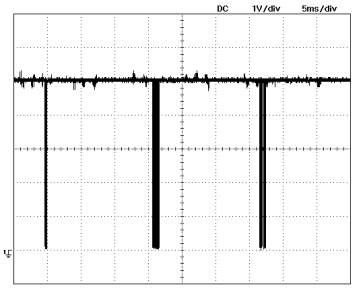
1 I001 Pin 29



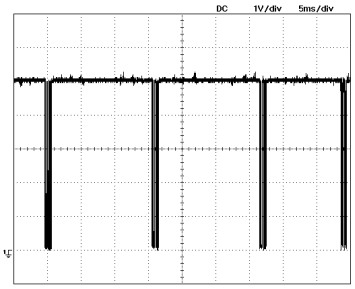

2 I001 PIN 30



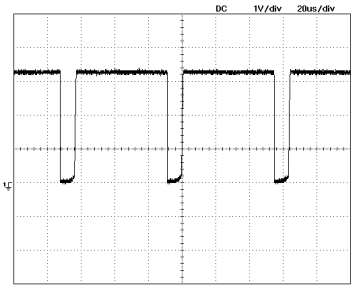

3 I001 PIN 28



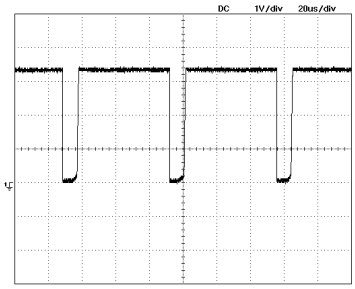

4 I001 PIN 31



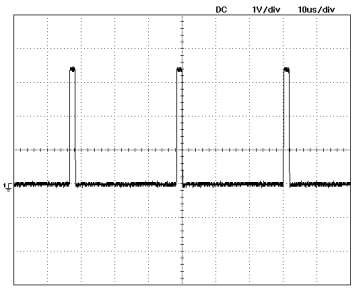

5 I001 PIN 23



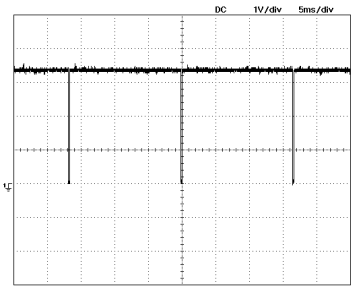

6 I001 PIN 25



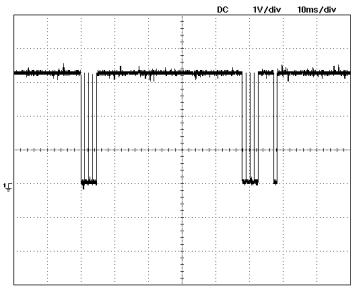

7 I001 PIN 62



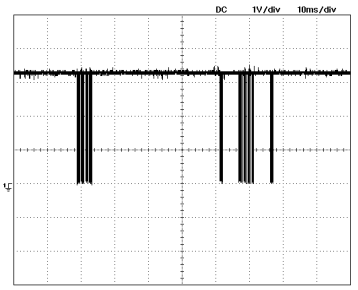

8 I001 PIN 64



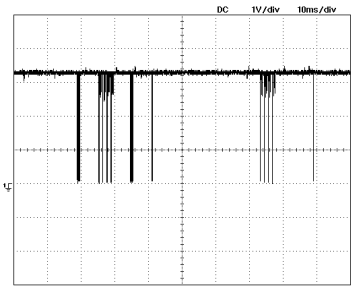

9 I001 PIN 56



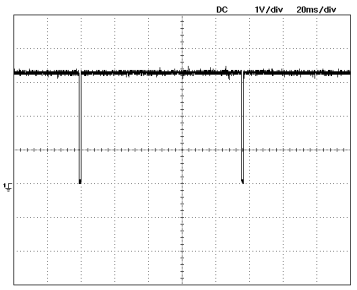

10 I001 PIN 53




11 I001 PIN 52



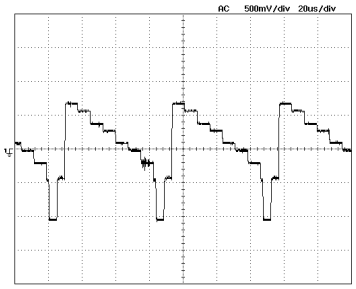

12 I001 PIN 55



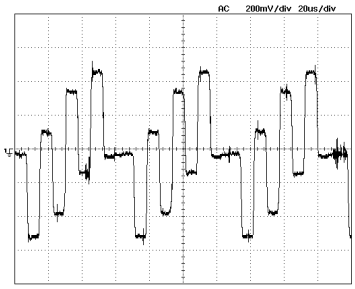
# WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

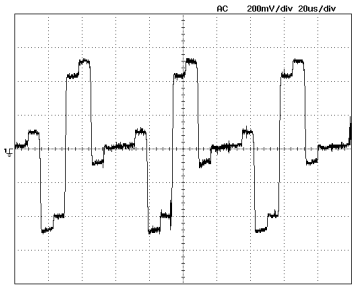
(13) TP301 (PS0FP PIN 24)



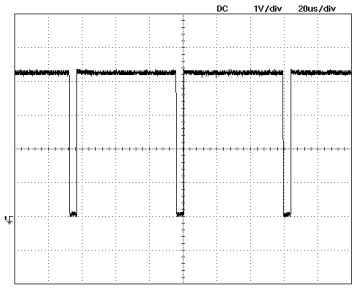

(14) TP302 (P50FP PIN 23)



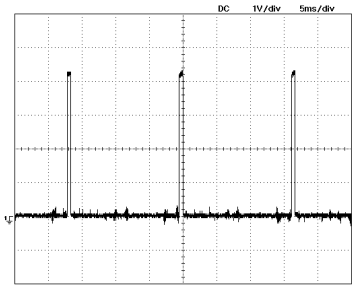

(15) TP303 (P50FP PIN 22)



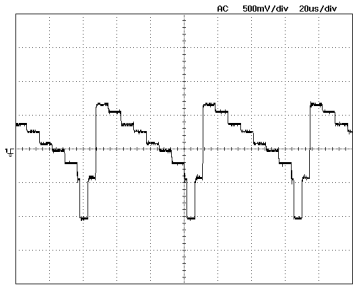

(16) TP304 (P50FP PIN 20)



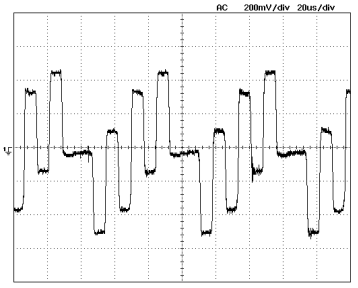

(17) TP305(P50FP PIN 19)



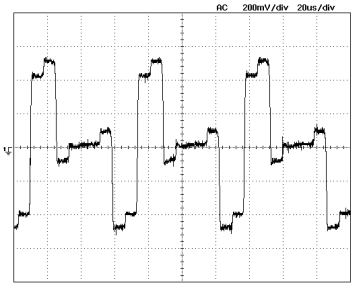

(18) TP306 (P50FP PIN 17)



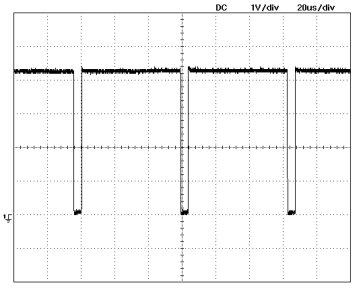

(19) TP307 (P50FP PIN 16)



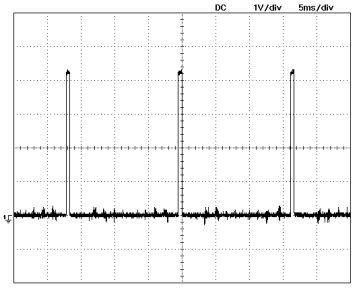

(20) TP308 (P50FP PIN 15)



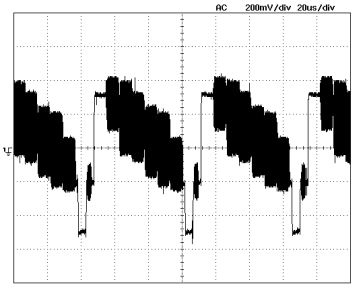

(21) TP309 (P50FP PIN 13)



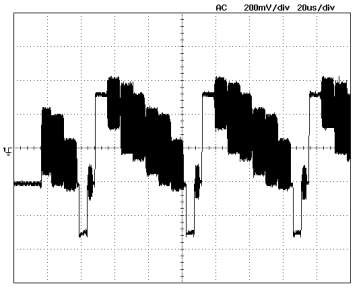

(22) TP310 (P50FP PIN 12)




(23) U102 PIN 18



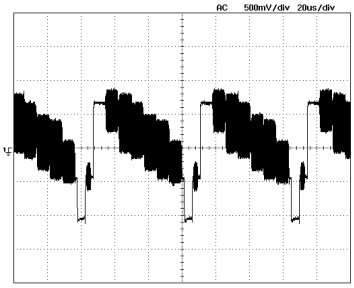

(24) U101 PIN 18



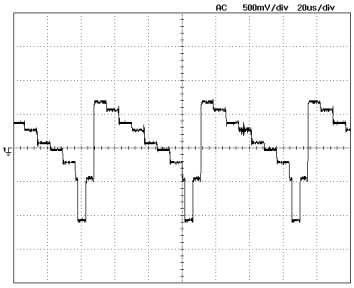
# WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

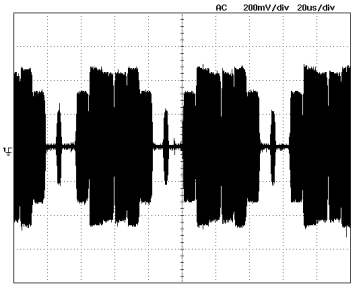
(25) TPX51 (IX01 PIN 44)



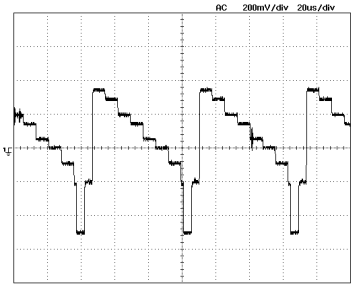

(26) TPX54 (IX01 PIN 56)



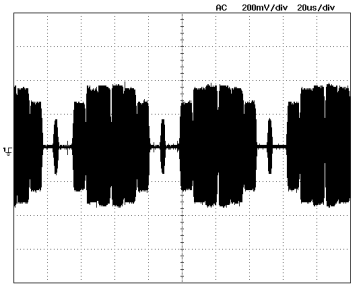

(27) TPX55 (IX01 PIN 58)



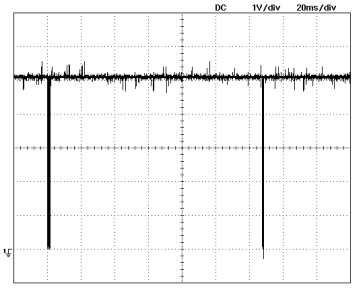

(28) TPW03 (IW01 PIN 84, after LPF)



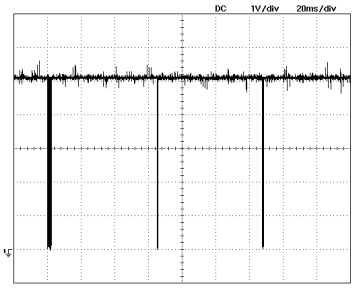

(29) TPZ23 (IW01 PIN 83, after chroma)



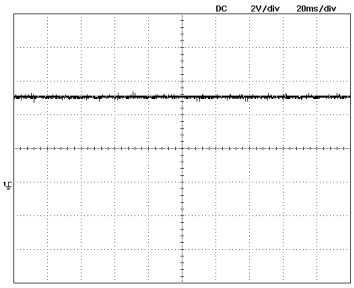

(30) I008 PIN 54



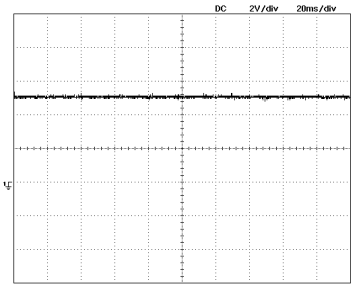

(31) I008 PIN 55




(32) I008 PIN 59




(33) I008 PIN 58



# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (Signal)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I001 | 1 | 0.28 |
| | 2 | 1.33 |
| | 3 | 5.11 |
| | 4 | 5.09 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 1.43 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 3.26 |
| | 11 | 3.26 |
| | 12 | 3.28 |
| | 13 | 1.69 |
| | 14 | 0.00 |
| | 15 | 1.65 |
| | 16 | 3.28 |
| | 17 | 1.01 |
| | 18 | 3.27 |
| | 19 | 2.91 |
| | 20 | 0.00 |
| | 21 | 0.00 |
| | 22 | 0.00 |
| | 23 | 2.83 |
| | 24 | 0.00 |
| | 25 | 2.84 |
| | 26 | 1.58 |
| | 27 | 0.00 |
| | 28 | 5.11 |
| | 29 | 5.11 |
| | 30 | 5.11 |
| | 31 | 5.11 |
| | 32 | 0.00 |
| | 33 | 0.00 |
| | 34 | 0.00 |
| | 35 | 0.00 |
| | 36 | 0.00 |
| | 37 | 3.26 |
| | 38 | 0.00 |
| | 39 | 3.26 |
| | 40 | 3.26 |
| | 41 | 0.00 |
| | 42 | 2.52 |
| | 43 | 0.00 |
| | 44 | 0.00 |
| | 45 | 0.00 |
| | 46 | 0.00 |
| | 47 | 3.25 |
| | 48 | 3.25 |
| | 49 | 0.00 |
| | 50 | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I001 | 51 | 3.16 |
| | 52 | 3.25 |
| | 53 | 3.25 |
| | 54 | 0.20 |
| | 55 | 3.25 |
| | 56 | 0.00 |
| | 57 | 3.25 |
| | 58 | 3.25 |
| | 59 | 3.12 |
| | 60 | 0.00 |
| | 61 | 3.81 |
| | 62 | 0.00 |
| | 63 | 3.81 |
| | 64 | 3.28 |
| | 65 | 0.00 |
| | 66 | 0.00 |
| | 67 | 0.00 |
| | 68 | 0.00 |
| | 69 | 0.00 |
| | 70 | 0.00 |
| | 71 | 0.00 |
| | 72 | 0.00 |
| | 73 | 3.18 |
| | 74 | 3.18 |
| | 75 | 3.24 |
| | 76 | 3.79 |
| | 77 | 3.72 |
| | 78 | 3.28 |
| | 79 | 3.26 |
| | 80 | 0.00 |
| | 81 | 3.27 |
| | 82 | 3.27 |
| | 83 | 0.00 |
| | 84 | 0.00 |
| | 85 | 3.19 |
| | 86 | 3.19 |
| | 87 | 3.25 |
| | 88 | 0.00 |
| | 89 | 0.00 |
| | 90 | 0.00 |
| | 91 | 0.00 |
| | 92 | 1.74 |
| | 93 | 1.47 |
| | 94 | 3.27 |
| | 95 | 0.51 |
| | 96 | 1.31 |
| | 97 | 2.05 |
| | 98 | 0.00 |
| | 99 | 5.11 |
| | 100 | 2.05 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I002 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 3.28 |
| I003 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 5.11 |
| | 6 | 5.11 |
| | 7 | 0.00 |
| | 8 | 5.11 |
| I004 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 3.25 |
| | 4 | 3.25 |
| | 5 | 2.60 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 5.11 |
| | 10 | 5.11 |
| | 11 | 5.11 |
| | 12 | 0.00 |
| | 13 | 0.00 |
| | 14 | 0.00 |
| | 15 | 0.00 |
| | 16 | 5.11 |
| I201 | 1 | 3.68 |
| | 2 | 5.24 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 0.00 |
| | 11 | 0.00 |
| | 12 | 5.23 |
| | 13 | 3.61 |
| | 14 | 5.24 |
| | 15 | 5.24 |
| | 16 | 9.02 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I202 | 1 | 3.28 |
| | 2 | 3.29 |
| | 3 | 0.00 |
| | 4 | 3.29 |
| | 5 | 3.29 |
| | 6 | 0.00 |
| | 7 | 3.29 |
| | 8 | 0.24 |
| | 9 | 0.00 |
| | 10 | 0.00 |
| | 11 | 0.00 |
| | 12 | 3.29 |
| | 13 | 0.00 |
| | 14 | 0.00 |
| | 15 | 0.00 |
| | 16 | 0.00 |
| | 17 | 3.29 |
| | 18 | 3.29 |
| | 19 | 0.00 |
| | 20 | 0.00 |
| | 21 | 0.00 |
| | 22 | 0.00 |
| | 23 | 0.00 |
| | 24 | 3.29 |
| | 25 | 0.00 |
| | 26 | 0.00 |
| | 27 | 0.00 |
| | 28 | 0.00 |
| | 29 | 0.00 |
| | 30 | 3.29 |
| | 31 | 3.29 |
| | 32 | 3.29 |
| | 33 | 3.29 |
| | 34 | 3.29 |
| | 35 | 3.29 |
| | 36 | 3.29 |
| | 37 | 3.29 |
| | 38 | 0.00 |
| | 39 | 0.00 |
| | 40 | 0.00 |
| | 41 | 0.00 |
| | 42 | 3.29 |
| | 43 | 3.29 |
| | 44 | 3.29 |

# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (Signal) (Cont.)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I203 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 5.11 |
| | 4 | 0.00 |
| | 5 | 0.00 |
| | 6 | 5.09 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 5.11 |
| | 10 | 0.00 |
| | 11 | 3.26 |
| | 12 | 0.00 |
| | 13 | 0.00 |
| | 14 | 5.07 |
| | 15 | 0.00 |
| | 16 | 0.00 |
| | 17 | 3.28 |
| | 18 | 0.00 |
| | 19 | 0.00 |
| | 20 | 5.11 |
| I204 | 1 | 5.09 |
| | 2 | 5.09 |
| | 3 | 5.09 |
| | 4 | 5.09 |
| | 5 | 5.09 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 5.09 |
| | 10 | 5.09 |
| | 11 | 5.09 |
| | 12 | 5.11 |
| | 13 | 5.11 |
| | 14 | 5.11 |
| | 15 | 5.09 |
| | 16 | 5.11 |
| I206 | 1 | 0.00 |
| | 2 | 3.25 |
| | 3 | 5.11 |
| | 4 | 3.25 |
| | 5 | 4.95 |
| | 6 | 3.25 |
| | 7 | 5.10 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 0.00 |
| | 11 | 0.00 |
| | 12 | 0.00 |
| | 13 | 3.26 |
| | 14 | 5.11 |
| | 15 | 4.94 |
| | 16 | 4.99 |
| | 17 | 3.25 |
| | 18 | 5.11 |
| | 19 | 0.00 |
| | 20 | 5.11 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I207 | 1 | 0.00 |
| | 2 | 4.64 |
| | 3 | 4.98 |
| | 4 | 4.94 |
| | 5 | 0.13 |
| | 6 | 0.00 |
| | 7 | 4.86 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 4.98 |
| | 11 | 4.98 |
| | 12 | 4.86 |
| | 13 | 0.00 |
| | 14 | 0.00 |
| | 15 | 4.94 |
| | 16 | 4.98 |
| I208 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 3.29 |
| | 6 | 3.29 |
| | 7 | 0.00 |
| | 8 | 3.29 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q001 | E | 0.00 |
| | B | 0.00 |
| | C | 0.46 |
| Q002 | E | 0.00 |
| | B | 0.00 |
| | C | 5.11 |
| Q101 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q102 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q103 | E | 0.00 |
| | B | 0.63 |
| | C | 0.00 |
| Q104 | E | 0.00 |
| | B | 0.63 |
| | C | 0.00 |
| Q202 | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| Q203 | E | 0.00 |
| | B | 0.62 |
| | C | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q204 | E | 3.01 |
| | B | 2.43 |
| | C | 0.00 |
| Q205 | E | 2.40 |
| | B | 3.01 |
| | C | 4.98 |
| Q206 | E | 4.92 |
| | B | 4.62 |
| | C | 0.00 |
| Q207 | E | 4.30 |
| | B | 4.92 |
| | C | 4.98 |
| Q208 | E | 4.56 |
| | B | 5.19 |
| | C | 9.02 |
| Q209 | E | 4.60 |
| | B | 5.23 |
| | C | 9.02 |
| Q210 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q211 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q212 | E | 0.00 |
| | B | 0.33 |
| | C | 1.57 |
| Q313 | E | 0.00 |
| | B | 0.00 |
| | C | 3.28 |
| Q214 | E | 0.00 |
| | B | 0.00 |
| | C | 5.09 |
| Q215 | E | 0.00 |
| | B | 0.10 |
| | C | 2.84 |
| Q216 | E | 5.75 |
| | B | 5.86 |
| | C | 0.50 |
| Q217 | E | 5.85 |
| | B | 5.22 |
| | C | 0.00 |
| Q218 | E | 5.18 |
| | B | 4.90 |
| | C | 9.01 |
| Q219 | E | 4.26 |
| | B | 3.83 |
| | C | 0.00 |
| Q220 | E | 0.00 |
| | B | 0.10 |
| | C | 2.86 |
| Q221 | E | 5.74 |
| | B | 5.86 |
| | C | 0.50 |
| | E | 5.85 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q222 | B | 5.22 |
| | C | 0.00 |
| Q223 | E | 5.18 |
| | B | 4.90 |
| | C | 9.01 |
| Q224 | E | 4.35 |
| | B | 3.95 |
| | C | 0.00 |
| Q231 | E | 0.00 |
| | B | 0.00 |
| | C | 5.11 |
| Q233 | E | 0.00 |
| | B | 0.00 |
| | C | 1.08 |
| Q234 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q235 | E | 0.00 |
| | B | 0.00 |
| | C | 1.08 |
| Q236 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q241 | E | 0.00 |
| | B | 0.10 |
| | C | 3.44 |
| Q242 | E | 0.00 |
| | B | 0.10 |
| | C | 3.43 |
| Q246 | E | 0.00 |
| | B | 0.00 |
| | C | 5.12 |
| Q247 | E | 0.00 |
| | B | 0.64 |
| | C | 0.00 |
| Q251 | E | 0.00 |
| | B | 0.56 |
| | C | 1.00 |
| Q252 | E | 0.00 |
| | B | 0.74 |
| | C | 0.00 |
| Q253 | E | 0.00 |
| | B | 0.00 |
| | C | 4.87 |
| Q254 | E | 0.10 |
| | B | 0.56 |
| | C | 1.43 |
| | E | 4.51 |

# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (Sound, Power)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q403 | B | 5.11 |
| | C | 8.99 |
| Q403A | E | 4.51 |
| | B | 5.11 |
| | C | 8.99 |
| Q404 | E | 0.00 |
| | B | 0.60 |
| | C | 0.00 |
| Q405 | E | 0.00 |
| | B | 0.60 |
| | C | 0.00 |
| Q406 | E | 3.77 |
| | B | 4.22 |
| | C | 8.99 |
| Q406A | E | 3.77 |
| | B | 4.22 |
| | C | 8.99 |
| Q407 | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| Q407A | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| Q408 | E | 3.90 |
| | B | 4.53 |
| | C | 8.99 |
| Q408A | E | 3.90 |
| | B | 4.53 |
| | C | 8.99 |
| Q409 | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| Q409A | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| Q411 | E | 3.97 |
| | B | 4.53 |
| | C | 8.39 |
| Q411A | E | 3.95 |
| | B | 4.53 |
| | C | 8.38 |
| Q412 | E | 8.99 |
| | B | 8.39 |
| | C | 4.79 |
| Q412A | E | 8.99 |
| | B | 8.39 |
| | C | 4.80 |
| Q413 | E | 3.09 |
| | B | 2.48 |
| | C | 0.00 |
| Q414 | E | 0.00 |
| | B | 0.00 |
| | C | 5.47 |
| Q415 | E | 5.02 |
| | B | 5.63 |
| | C | 4.10 |
| Q416 | E | 5.02 |
| | B | 0.63 |
| | C | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I401 | 1 | 4.43 |
| | 2 | 4.51 |
| | 3 | 4.43 |
| | 4 | 0.00 |
| | 5 | 0.25 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 0.00 |
| | 11 | 0.00 |
| | 12 | 4.43 |
| | 13 | 4.43 |
| | 14 | 0.00 |
| | 15 | 4.49 |
| | 16 | 8.99 |
| I402 | 1 | 4.49 |
| | 2 | 1.37 |
| | 3 | 4.53 |
| | 4 | 8.99 |
| | 5 | 4.50 |
| | 6 | 0.00 |
| | 7 | 3.48 |
| | 8 | 4.53 |
| | 9 | 5.48 |
| | 10 | 4.49 |
| I403 | 1 | 0.00 |
| | 2 | 2.84 |
| | 3 | 5.20 |
| | 4 | 2.88 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 2.88 |
| | 8 | 0.00 |
| | 9 | 5.73 |
| | 10 | 2.88 |
| | 11 | 0.00 |
| | 12 | 3.07 |
| | 13 | 2.88 |
| | 14 | 5.20 |
| | 15 | 2.84 |
| | 16 | 2.89 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I904 | 1 | 3.94 |
| | 2 | 0.00 |
| | 3 | 1.28 |
| | 4 | 2.48 |
| | 5 | 3.25 |
| I905 | 1 | 5.67 |
| | 2 | 4.93 |
| | 3 | 5.67 |
| | 4 | 3.92 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 4.99 |
| | 8 | 4.99 |
| I906 | 1 | 5.65 |
| | 2 | 4.90 |
| | 3 | 5.65 |
| | 4 | 3.92 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 4.97 |
| | 8 | 4.97 |
| I907 | 1 | 3.93 |
| | 2 | 9.83 |
| | 3 | 0.00 |
| | 4 | 9.00 |
| | 5 | 9.00 |
| I908 | 1 | 3.93 |
| | 2 | 9.83 |
| | 3 | 0.00 |
| | 4 | 9.00 |
| | 5 | 9.00 |
| I909 | 1 | 3.93 |
| | 2 | 9.83 |
| | 3 | 0.00 |
| | 4 | 9.00 |
| | 5 | 9.00 |
| I910 | 1 | 5.11 |
| | 2 | 4.44 |
| | 3 | 5.11 |
| | 4 | 5.11 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 3.29 |
| | 8 | 3.29 |

# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (DVI)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IJ01 | 1 | 3.29 |
| | 2 | 3.29 |
| | 3 | 3.29 |
| | 4 | 0.00 |
| | 5 | 3.29 |
| | 6 | 3.29 |
| | 7 | 3.29 |
| | 8 | 3.29 |
| | 9 | 3.29 |
| | 10 | 0.00 |
| | 11 | 3.29 |
| | 12 | 0.00 |
| | 13 | 3.29 |
| | 14 | 3.29 |
| | 15 | 3.29 |
| | 16 | 0.00 |
| | 17 | 3.29 |
| | 18 | 0.00 |
| | 19 | 0.00 |
| | 20 | 3.29 |
| | 21 | 0.00 |
| | 22 | 3.29 |
| | 23 | 0.00 |
| | 24 | 3.29 |
| | 25 | 0.00 |
| | 26 | 0.00 |
| | 27 | 3.29 |
| | 28 | 0.00 |
| | 29 | 0.00 |
| | 30 | 3.29 |
| | 31 | 0.00 |
| | 32 | 3.29 |
| | 33 | 0.00 |
| | 34 | 0.00 |
| | 35 | 0.00 |
| | 36 | 0.00 |
| | 37 | 3.30 |
| | 38 | 3.30 |
| | 39 | 3.30 |
| | 40 | 0.00 |
| | 41 | 3.30 |
| | 42 | 3.30 |
| | 43 | 0.00 |
| | 44 | 0.00 |
| | 45 | 0.00 |
| | 46 | 3.30 |
| | 47 | 0.00 |
| | 48 | 3.29 |
| | 49 | 3.29 |
| | 50 | 0.00 |
| | 51 | 3.29 |
| | 52 | 3.29 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IJ04 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 4.66 |
| | 6 | 4.66 |
| | 7 | 4.68 |
| | 8 | 4.68 |
| IJ05 | 1 | 5.67 |
| | 2 | 5.03 |
| | 3 | 6.67 |
| | 4 | 5.67 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 4.99 |
| | 8 | 4.99 |
| IJ06 | 1 | 4.99 |
| | 2 | 4.40 |
| | 3 | 4.99 |
| | 4 | 4.99 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 3.30 |
| | 8 | 3.30 |
| QJ01 | E | 0.65 |
| | B | 0.00 |
| | C | 0.00 |
| QJ05 | E | 0.65 |
| | B | 0.00 |
| | C | 0.00 |
| QJ09 | E | 0.65 |
| | B | 0.00 |
| | C | 0.00 |
| QJ13 | E | 0.00 |
| | B | 0.00 |
| | C | 0.65 |
| QJ14 | E | 0.00 |
| | B | 0.00 |
| | C | 1.55 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IJA3 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| QJA0 | E | 0.00 |
| | B | 0.00 |
| | C | 0.20 |
| QJA4 | E | 0.20 |
| | B | 0.00 |
| | C | 0.00 |
| QJA8 | E | 0.20 |
| | B | 0.00 |
| | C | 0.00 |
| QJC2 | E | 0.00 |
| | B | 0.00 |
| | C | 0.20 |

# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (Input)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IV01 | 1 | 0.00 |
| | 2 | 2.20 |
| | 3 | 2.76 |
| | 4 | 2.44 |
| | 5 | 1.24 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 4.96 |
| | 9 | 0.00 |
| | 10 | 2.25 |
| | 11 | 2.09 |
| | 12 | 3.35 |
| | 13 | 3.79 |
| | 14 | 1.43 |
| | 15 | 3.71 |
| | 16 | 4.91 |
| IX01 | 1 | 3.97 |
| | 2 | 4.41 |
| | 3 | 3.92 |
| | 4 | 4.42 |
| | 5 | 4.36 |
| | 6 | 0.10 |
| | 7 | 0.00 |
| | 8 | 3.89 |
| | 9 | 4.40 |
| | 10 | 3.89 |
| | 11 | 4.40 |
| | 12 | 4.36 |
| | 13 | 0.10 |
| | 14 | 4.85 |
| | 15 | 3.88 |
| | 16 | 4.40 |
| | 17 | 3.88 |
| | 18 | 4.40 |
| | 19 | 4.36 |
| | 20 | 0.10 |
| | 21 | 4.86 |
| | 22 | 3.88 |
| | 23 | 4.40 |
| | 24 | 3.88 |
| | 25 | 4.40 |
| | 26 | 4.36 |
| | 27 | 0.10 |
| | 28 | 4.85 |
| | 29 | 4.40 |
| | 30 | 4.37 |
| | 31 | 4.40 |
| | 32 | 0.00 |
| | 33 | 5.00 |
| | 34 | 4.97 |
| | 35 | 0.00 |
| | 36 | 0.00 |
| | 37 | 4.35 |
| | 38 | 4.43 |
| | 39 | 3.64 |
| | 40 | 4.43 |
| | 41 | 4.56 |
| | 42 | 8.87 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IX01 | 43 | 8.87 |
| | 44 | 4.43 |
| | 45 | 4.46 |
| | 46 | 3.63 |
| | 47 | 4.35 |
| | 48 | 0.10 |
| | 49 | 5.03 |
| | 50 | 4.42 |
| | 51 | 4.36 |
| | 52 | 4.43 |
| | 53 | 4.57 |
| | 54 | 4.43 |
| | 55 | 3.64 |
| | 56 | 4.32 |
| | 57 | 0.00 |
| | 58 | 4.28 |
| | 59 | 4.40 |
| | 60 | 5.20 |
| | 61 | 4.40 |
| | 62 | 4.40 |
| | 63 | 4.87 |
| | 64 | 4.40 |
| IX02 | 1 | 0.67 |
| | 2 | 0.50 |
| | 3 | 0.69 |
| | 4 | 8.82 |
| | 5 | 4.87 |
| | 6 | 0.00 |
| | 7 | 4.60 |
| | 8 | 0.00 |
| | 9 | 4.63 |
| | 10 | 4.60 |
| | 11 | 0.80 |
| | 12 | 0.60 |
| | 13 | 0.79 |
| | 14 | 8.82 |
| | 15 | 4.93 |
| | 16 | 0.00 |
| | 17 | 4.65 |
| | 18 | 0.00 |
| | 19 | 4.66 |
| | 20 | 4.84 |
| | 21 | 1.36 |
| | 22 | 1.17 |
| | 23 | 1.36 |
| | 24 | 0.00 |
| | 25 | 0.00 |
| | 26 | 4.85 |
| | 27 | 4.91 |
| | 28 | 4.95 |
| | 29 | 0.00 |
| | 30 | 0.00 |
| | 31 | 0.00 |
| | 32 | 4.57 |
| | 33 | 0.00 |
| | 34 | 5.28 |
| | 35 | 0.00 |
| | 36 | 5.12 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IX02 | 37 | 0.00 |
| | 38 | 6.26 |
| | 39 | 8.84 |
| | 40 | 4.16 |
| | 41 | 0.00 |
| | 42 | 4.21 |
| | 43 | 0.00 |
| | 44 | 4.22 |
| | 45 | 8.81 |
| | 46 | 4.18 |
| | 47 | 0.00 |
| | 48 | 4.18 |
| | 49 | 0.00 |
| | 50 | 4.28 |
| | 51 | 8.82 |
| | 52 | 8.82 |
| | 53 | 5.14 |
| | 54 | 0.00 |
| | 55 | 4.85 |
| | 56 | 0.00 |
| | 57 | 4.85 |
| | 58 | 8.82 |
| | 59 | 5.14 |
| | 60 | 0.00 |
| | 61 | 4.85 |
| | 62 | 0.00 |
| | 63 | 4.85 |
| | 64 | 4.95 |
| IX03 | 1 | 2.90 |
| | 2 | 0.00 |
| | 3 | 2.08 |
| | 4 | 0.00 |
| | 5 | 2.08 |
| | 6 | 0.97 |
| | 7 | 0.00 |
| | 8 | 1.72 |
| | 9 | 1.75 |
| | 10 | 0.00 |
| | 11 | 2.84 |
| | 12 | 0.00 |
| | 13 | 4.89 |
| | 14 | 2.90 |
| | 15 | 0.00 |
| | 16 | 2.84 |
| QV01 | E | 3.08 |
| | B | 3.71 |
| | C | 8.95 |
| QV02 | E | 2.22 |
| | B | 2.82 |
| | C | 8.32 |
| QV03 | E | 8.95 |
| | B | 8.32 |
| | C | 4.92 |
| QV04 | E | 4.30 |
| | B | 4.93 |
| | C | 4.95 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QV05 | E | 3.20 |
| | B | 3.79 |
| | C | 8.97 |
| QV06 | E | 2.20 |
| | B | 2.80 |
| | C | 8.32 |
| QV07 | E | 8.97 |
| | B | 8.34 |
| | C | 5.79 |
| QV08 | E | 5.16 |
| | B | 5.79 |
| | C | 8.97 |
| QV09 | E | 6.15 |
| | B | 6.77 |
| | C | 8.97 |
| QV10 | E | 2.98 |
| | B | 2.36 |
| | C | 0.00 |
| QX01 | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| QX02 | E | 0.00 |
| | B | 0.00 |
| | C | 0.00 |
| QX03 | E | 3.86 |
| | B | 4.53 |
| | C | 8.89 |
| QX04 | E | 2.97 |
| | B | 3.63 |
| | C | 8.89 |
| QX05 | E | 3.68 |
| | B | 4.34 |
| | C | 8.89 |
| QX08 | E | 0.00 |
| | B | 0.42 |
| | C | 3.30 |
| QX12 | E | 3.85 |
| | B | 4.47 |
| | C | 8.87 |
| QX13 | E | 3.85 |
| | B | 4.47 |
| | C | 8.87 |
| QX14 | E | 3.73 |
| | B | 4.35 |
| | C | 8.87 |
| QX15 | E | 3.69 |
| | B | 4.31 |
| | C | 8.87 |
| QX16 | E | 3.67 |
| | B | 4.28 |
| | C | 8.87 |
| QX17 | E | 3.95 |
| | B | 4.56 |
| | C | 8.87 |
| QX21 | E | 2.37 |
| | B | 1.74 |
| | C | 0.00 |

# DC VOLTAGE TABLES

## AVC3-U Audio/Video Board (Input) (CONT.)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IX04 | 1 | 2.90 |
| | 2 | 0.00 |
| | 3 | 2.08 |
| | 4 | 0.00 |
| | 5 | 2.08 |
| | 6 | 1.44 |
| | 7 | 0.00 |
| | 8 | 2.20 |
| | 9 | 1.80 |
| | 10 | 0.00 |
| | 11 | 2.84 |
| | 12 | 0.00 |
| | 13 | 4.89 |
| | 14 | 2.90 |
| | 15 | 0.00 |
| | 16 | 2.84 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QX22 | E | 2.34 |
| | B | 1.70 |
| | C | 0.00 |
| QX23 | E | 2.32 |
| | B | 1.69 |
| | C | 0.00 |
| QX24 | E | 2.35 |
| | B | 1.72 |
| | C | 0.00 |
| QX25 | E | 2.35 |
| | B | 1.72 |
| | C | 0.00 |
| QX26 | E | 2.33 |
| | B | 1.70 |
| | C | 0.00 |
| QX30 | E | 3.61 |
| | B | 4.22 |
| | C | 8.82 |
| QX31 | E | 3.66 |
| | B | 4.28 |
| | C | 8.82 |
| QX37 | E | 2.37 |
| | B | 1.77 |
| | C | 0.00 |
| QX38 | E | 4.25 |
| | B | 3.67 |
| | C | 0.00 |

# DC VOLTAGE TABLES

## AVC3-U Video

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IW01 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 0.00 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 0.00 |
| | 8 | 0.00 |
| | 9 | 0.00 |
| | 10 | 0.60 |
| | 11 | 3.25 |
| | 12 | 3.25 |
| | 13 | 0.00 |
| | 14 | 0.00 |
| | 15 | 0.00 |
| | 16 | 0.00 |
| | 17 | 0.00 |
| | 18 | 0.00 |
| | 19 | 0.00 |
| | 20 | 0.00 |
| | 21 | 0.00 |
| | 22 | 0.00 |
| | 23 | 0.00 |
| | 24 | 0.00 |
| | 25 | 0.00 |
| | 26 | 0.00 |
| | 27 | 0.00 |
| | 28 | 0.00 |
| | 29 | 0.00 |
| | 30 | 0.00 |
| | 31 | 2.43 |
| | 32 | 2.43 |
| | 33 | 0.00 |
| | 34 | 0.00 |
| | 35 | 0.00 |
| | 36 | 0.00 |
| | 37 | 0.00 |
| | 38 | 3.25 |
| | 39 | 0.00 |
| | 40 | 0.00 |
| | 41 | 0.00 |
| | 42 | 0.00 |
| | 43 | 0.00 |
| | 44 | 0.00 |
| | 45 | 2.42 |
| | 46 | 2.43 |
| | 47 | 1.15 |
| | 48 | 1.15 |
| | 49 | 0.00 |
| | 50 | 1.67 |
| | 51 | 0.00 |
| | 52 | 1.24 |
| | 53 | 2.43 |
| | 54 | 0.00 |
| | 55 | 0.00 |
| | 56 | 0.00 |
| | 57 | 3.25 |
| | 58 | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IW01 | 59 | 4.92 |
| | 60 | 4.84 |
| | 61 | 0.13 |
| | 62 | 0.13 |
| | 63 | 0.00 |
| | 64 | 2.42 |
| | 65 | 0.00 |
| | 66 | 0.00 |
| | 67 | 0.00 |
| | 68 | 0.00 |
| | 69 | 0.00 |
| | 70 | 0.00 |
| | 71 | 0.00 |
| | 72 | 0.00 |
| | 73 | 0.00 |
| | 74 | 0.00 |
| | 75 | 0.00 |
| | 76 | 2.91 |
| | 77 | 0.00 |
| | 78 | 0.00 |
| | 79 | 0.00 |
| | 80 | 0.00 |
| | 81 | 2.41 |
| | 82 | 1.02 |
| | 83 | 1.44 |
| | 84 | 1.44 |
| | 85 | 1.02 |
| | 86 | 0.00 |
| | 87 | 0.00 |
| | 88 | 1.08 |
| | 89 | 0.64 |
| | 90 | 0.74 |
| | 91 | 1.21 |
| | 92 | 2.41 |
| | 93 | 2.41 |
| | 94 | 0.00 |
| | 95 | 0.00 |
| | 96 | 1.07 |
| | 97 | 0.00 |
| | 98 | 0.00 |
| | 99 | 0.00 |
| | 100 | 2.42 |
| IW02 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 3.25 |
| | 5 | 3.25 |
| IZ01 | 1 | 8.89 |
| | 2 | 2.51 |
| | 3 | 4.12 |
| | 4 | 2.50 |
| | 5 | 0.00 |
| | 6 | 2.35 |
| | 7 | 0.00 |
| | 8 | 4.74 |
| | 9 | 6.18 |
| | 10 | 5.02 |
| | 11 | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IZ01 | 12 | 8.90 |
| | 13 | 4.84 |
| | 14 | 4.90 |
| | 15 | 0.00 |
| | 16 | 2.41 |
| | 17 | 4.58 |
| | 18 | 0.00 |
| | 19 | 2.42 |
| | 20 | 2.25 |
| | 21 | 3.89 |
| | 22 | 3.65 |
| | 23 | 3.58 |
| | 24 | 4.13 |
| | 25 | 4.84 |
| | 26 | 2.89 |
| | 27 | 0.00 |
| | 28 | 2.21 |
| | 29 | 2.21 |
| | 30 | 2.35 |
| | 1 | 8.89 |
| | 2 | 2.51 |
| | 3 | 4.12 |
| | 4 | 1.95 |
| | 5 | 0.00 |
| | 6 | 2.35 |
| | 7 | 0.00 |
| | 8 | 4.66 |
| | 9 | 6.19 |
| | 10 | 5.02 |
| | 11 | 0.00 |
| | 12 | 0.00 |
| | 13 | 4.80 |
| | 14 | 4.89 |
| | 15 | 0.00 |
| | 16 | 2.41 |
| | 17 | 4.58 |
| | 18 | 0.00 |
| | 19 | 2.41 |
| | 20 | 2.26 |
| | 21 | 3.89 |
| | 22 | 3.61 |
| | 23 | 3.61 |
| | 24 | 4.00 |
| | 25 | 4.84 |
| | 26 | 2.88 |
| | 27 | 0.00 |
| | 28 | 2.21 |
| | 29 | 2.21 |
| | 30 | 2.35 |
| IZ03 | 1 | 5.95 |
| | 2 | 6.23 |
| | 3 | 5.95 |
| | 4 | 0.10 |
| | 5 | 0.00 |
| | 6 | 5.94 |
| | 7 | 5.95 |
| | 8 | 5.93 |
| | 9 | 0.00 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| IZ03 | 10 | 0.00 |
| | 11 | 0.00 |
| | 12 | 8.77 |
| | 13 | 4.55 |
| | 14 | 4.84 |
| | 15 | 4.56 |
| | 16 | 2.87 |
| IZ04 | 1 | 5.18 |
| | 2 | 0.00 |
| | 3 | 4.45 |
| | 4 | 0.00 |
| | 5 | 4.45 |
| | 6 | 3.38 |
| | 7 | 0.00 |
| | 8 | 4.05 |
| | 9 | 4.05 |
| | 10 | 0.00 |
| | 11 | 5.24 |
| | 12 | 3.22 |
| | 13 | 8.77 |
| | 14 | 5.18 |
| | 15 | 0.00 |
| | 16 | 5.24 |

# DC VOLTAGE TABLES

## AVC3-U Video (Cont.)

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QZ01 | E | 4.77 |
| | B | 4.13 |
| | C | 0.00 |
| QZ02 | E | 4.22 |
| | B | 3.58 |
| | C | 0.00 |
| QZ03 | E | 4.29 |
| | B | 3.65 |
| | C | 0.00 |
| QZ04 | E | 5.60 |
| | B | 6.25 |
| | C | 8.89 |
| QZ05 | E | 3.80 |
| | B | 3.93 |
| | C | 8.89 |
| QZ06 | E | 5.38 |
| | B | 6.02 |
| | C | 8.89 |
| QZ07 | E | 0.00 |
| | B | 0.00 |
| | C | 6.02 |
| QZ11 | E | 3.52 |
| | B | 2.90 |
| | C | 0.00 |
| QZ12 | E | 3.51 |
| | B | 2.90 |
| | C | 0.00 |
| QZ13 | E | 3.61 |
| | B | 4.25 |
| | C | 8.90 |
| QZ14 | E | 3.75 |
| | B | 3.93 |
| | C | 8.90 |
| QZ15 | E | 5.35 |
| | B | 5.99 |
| | C | 8.90 |
| QZ16 | E | 0.00 |
| | B | 0.00 |
| | C | 5.99 |
| QZ21 | E | 3.95 |
| | B | 4.58 |
| | C | 4.85 |
| QZ22 | E | 3.94 |
| | B | 4.58 |
| | C | 4.85 |
| QZ27 | E | 0.00 |
| | B | 0.00 |
| | C | 4.98 |
| QZ28 | E | 0.00 |
| | B | 0.00 |
| | C | 4.99 |
| QZ30 | E | 2.21 |
| | B | 2.82 |
| | C | 8.78 |
| QZ32 | E | 1.37 |
| | B | 1.97 |
| | C | 8.78 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QZ34 | E | 1.28 |
| | B | 1.88 |
| | C | 8.78 |
| QZ35 | 1 | 8.13 |
| | 2 | 8.13 |
| | 3 | 8.76 |
| | 4 | 5.21 |
| | 5 | 3.49 |
| | 6 | 2.96 |
| QZ36 | E | 3.78 |
| | B | 3.93 |
| | C | 8.90 |
| QZ7 | 1 | 8.14 |
| | 2 | 8.14 |
| | 3 | 8.78 |
| | 4 | 5.77 |
| | 5 | 3.49 |
| | 6 | 2.92 |
| QZ38 | E | 3.81 |
| | B | 4.44 |
| | C | 8.77 |
| QZ39 | 1 | 8.16 |
| | 2 | 8.16 |
| | 3 | 8.78 |
| | 4 | 3.92 |
| | 5 | 3.47 |
| | 6 | 2.92 |
| QZ40 | E | 3.81 |
| | B | 4.44 |
| | C | 8.78 |
| QZ41 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ42 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ43 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ46 | E | 0.00 |
| | B | 0.52 |
| | C | 0.10 |
| QZ47 | E | 4.52 |
| | B | 3.86 |
| | C | 0.00 |
| QZ48 | E | 6.33 |
| | B | 5.70 |
| | C | 0.00 |
| QZ49 | E | 5.84 |
| | B | 5.22 |
| | C | 0.00 |
| QZ50 | E | 4.23 |
| | B | 3.61 |
| | C | 0.00 |
| QZ51 | E | 4.24 |
| | B | 3.61 |
| | C | 0.00 |
| QZ52 | 1 | 8.78 |
| | 2 | 3.87 |
| | 3 | 4.49 |
| | 4 | 0.00 |
| | 5 | 2.43 |
| | 6 | 1.81 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QW05 | E | 2.68 |
| | B | 2.04 |
| | C | 0.00 |
| QW06 | E | 2.09 |
| | B | 2.32 |
| | C | 3.13 |
| QW07 | E | 3.24 |
| | B | 3.13 |
| | C | 0.00 |
| QW08 | E | 0.00 |
| | B | 0.00 |
| | C | 2.91 |
| QW09 | E | 2.06 |
| | B | 1.44 |
| | C | 0.00 |
| QW10 | E | 1.22 |
| | B | 1.82 |
| | C | 8.34 |
| QW11 | E | 8.96 |
| | B | 8.34 |
| | C | 2.79 |
| QW12 | E | 2.17 |
| | B | 2.79 |
| | C | 8.96 |
| QW13 | E | 8.97 |
| | B | 8.35 |
| | C | 6.33 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QW15 | E | 8.97 |
| | B | 8.35 |
| | C | 6.35 |

# DC VOLTAGE TABLES

## AVC3-U Video and Power

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QZ01 | E | 4.77 |
| | B | 4.13 |
| | C | 0.00 |
| QZ02 | E | 4.22 |
| | B | 3.58 |
| | C | 0.00 |
| QZ03 | E | 4.29 |
| | B | 3.65 |
| | C | 0.00 |
| QZ04 | E | 5.60 |
| | B | 6.25 |
| | C | 8.89 |
| QZ05 | E | 3.80 |
| | B | 3.93 |
| | C | 8.89 |
| QZ06 | E | 5.38 |
| | B | 6.02 |
| | C | 8.89 |
| QZ07 | E | 0.00 |
| | B | 0.00 |
| | C | 6.02 |
| QZ11 | E | 3.52 |
| | B | 2.90 |
| | C | 0.00 |
| QZ12 | E | 3.51 |
| | B | 2.90 |
| | C | 0.00 |
| QZ13 | E | 3.61 |
| | B | 4.25 |
| | C | 8.90 |
| QZ14 | E | 3.75 |
| | B | 3.93 |
| | C | 8.90 |
| QZ15 | E | 5.35 |
| | B | 5.99 |
| | C | 8.90 |
| QZ16 | E | 0.00 |
| | B | 0.00 |
| | C | 5.99 |
| QZ21 | E | 3.95 |
| | B | 4.58 |
| | C | 4.85 |
| QZ22 | E | 3.94 |
| | B | 4.58 |
| | C | 4.85 |
| QZ27 | E | 0.00 |
| | B | 0.00 |
| | C | 4.98 |
| QZ28 | E | 0.00 |
| | B | 0.00 |
| | C | 4.99 |
| QZ30 | E | 2.21 |
| | B | 2.82 |
| | C | 8.78 |
| QZ32 | E | 1.37 |
| | B | 1.97 |
| | C | 8.78 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QZ34 | E | 1.28 |
| | B | 1.88 |
| | C | 8.78 |
| QZ35 | 1 | 8.13 |
| | 2 | 8.13 |
| | 3 | 8.76 |
| | 4 | 5.21 |
| | 5 | 3.49 |
| QZ36 | 6 | 2.96 |
| | E | 3.78 |
| | B | 3.93 |
| | C | 8.90 |
| QZ7 | 1 | 8.14 |
| | 2 | 8.14 |
| | 3 | 8.78 |
| | 4 | 5.77 |
| | 5 | 3.49 |
| | 6 | 2.92 |
| QZ38 | E | 3.81 |
| | B | 4.44 |
| | C | 8.77 |
| QZ39 | 1 | 8.16 |
| | 2 | 8.16 |
| | 3 | 8.78 |
| | 4 | 3.92 |
| | 5 | 3.47 |
| | 6 | 2.92 |
| QZ40 | E | 3.81 |
| | B | 4.44 |
| | C | 8.78 |
| QZ41 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ42 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ43 | E | 0.67 |
| | B | 0.00 |
| | C | 0.00 |
| QZ46 | E | 0.00 |
| | B | 0.52 |
| | C | 0.10 |
| QZ47 | E | 4.52 |
| | B | 3.86 |
| | C | 0.00 |
| QZ48 | E | 6.33 |
| | B | 5.70 |
| | C | 0.00 |
| QZ49 | E | 5.84 |
| | B | 5.22 |
| | C | 0.00 |
| QZ50 | E | 4.23 |
| | B | 3.61 |
| | C | 0.00 |
| QZ51 | E | 4.24 |
| | B | 3.61 |
| | C | 0.00 |
| QZ52 | 1 | 8.78 |
| | 2 | 3.87 |
| | 3 | 4.49 |
| | 4 | 0.00 |
| | 5 | 2.43 |
| | 6 | 1.81 |

| Symbol | pin No. | DC Voltage |
|---|---|---|
| QW05 | E | 2.68 |
| | B | 2.04 |
| | C | 0.00 |
| QW06 | E | 2.09 |
| | B | 2.32 |
| | C | 3.13 |
| QW07 | E | 3.24 |
| | B | 3.13 |
| | C | 0.00 |
| QW08 | E | 0.00 |
| | B | 0.00 |
| | C | 2.91 |
| QW09 | E | 2.06 |
| | B | 1.44 |
| | C | 0.00 |
| QW10 | E | 1.22 |
| | B | 1.82 |
| | C | 8.34 |
| QW11 | E | 8.96 |
| | B | 8.34 |
| | C | 2.79 |
| QW12 | E | 2.17 |
| | B | 2.79 |
| | C | 8.96 |
| QW13 | E | 8.97 |
| | B | 8.35 |
| | C | 6.33 |
| QW14 | E | |
| | B | |
| | C | |
| QW15 | E | 8.97 |
| | B | 8.35 |
| | C | 6.35 |

Power PWB

| Symbol | pin No. | DC Voltage |
|---|---|---|
| I901 | 1 | 1.96 |
| | 2 | 0.00 |
| | 3 | 122.40 |
| | 4 | 15.09 |
| | 5 | 0.00 |
| I902 | 1 | 9.05 |
| | 2 | 8.08 |
| | 3 | 4.02 |
| | 4 | 15.09 |
| I905 | 1 | 4.77 |
| | 2 | 6.91 |
| | 3 | 1.69 |
| | 4 | 4.95 |
| I930 | 1 | 0.00 |
| | 2 | 0.00 |
| | 3 | 0.00 |
| | 4 | 5.57 |
| | 5 | 3.48 |
| | 6 | 0.00 |
| | 7 | 9.47 |
| | 8 | 9.56 |
| | 9 | 0.00 |
| | 10 | 17.34 |
| | 11 | 17.34 |
| | 12 | 15.28 |
| | 13 | 0.00 |
| | 14 | 0.88 |
| | 15 | 1.00 |
| | 16 | 0.00 |
| I931 | 1 | 0.00 |
| | 2 | 5.64 |
| | 3 | 3.45 |
| | 4 | 1.76 |
| | 5 | 17.36 |
| | 6 | 7.89 |
| | 7 | 1.00 |
| | 8 | 1.00 |
| I932 | 1 | 5.68 |
| | 2 | 5.00 |
| | 3 | 5.68 |
| | 4 | 5.68 |
| | 5 | 0.00 |
| | 6 | 0.00 |
| | 7 | 4.97 |
| | 8 | 4.97 |
| I933 | 1 | 17.36 |
| | 2 | 5.28 |
| | 3 | 0.00 |
| | 4 | 3.27 |
| | 5 | 2.33 |
| Q930 | D | 0.80 |
| | G | 0.22 |
| | E | 0.00 |
| Q931 | E | 0.00 |
| | B | 0.00 |
| | C | 1.35 |
| Q932 | E | 4.61 |
| | B | 4.61 |
| | C | -0.70 |
| Q933 | K | 0.00 |
| | D | 5.15 |
| | G | 0.00 |
| Q934 | E | 5.93 |
| | B | 6.55 |
| | C | 8.11 |
| Q936 | E | 0.00 |
| | B | 0.70 |
| | C | 0.00 |
| Q937 | E | 0.00 |
| | B | 0.00 |
| | C | 5.65 |
| Q938 | E | 0.00 |
| | B | 0.00 |
| | C | 2.33 |

# DC VOLTAGE TABLES

## PT3-H Signal

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I001 | 1 | 5.1 |
| | 2 | 1.7 |
| | 3 | 2.1 |
| | 4 | 4.9 |
| | 5 | 5.2 |
| | 6 | 5.2 |
| | 7 | 4.9 |
| | 8 | 5.1 |
| | 9 | 0.0 |
| | 10 | 5.0 |
| | 11 | 0.0 |
| | 12 | 0.0 |
| | 13 | 0.0 |
| | 14 | 5.2 |
| | 15 | 0.0 |
| | 16 | 0.0 |
| | 17 | 0.0 |
| | 18 | 0.0 |
| | 19 | 0.0 |
| | 20 | 0.0 |
| | 21 | 0.0 |
| | 22 | 0.0 |
| | 23 | 0.0 |
| | 24 | 3.3 |
| | 25 | 0.7 |
| | 26 | 3.3 |
| | 27 | 0.0 |
| | 28 | 0.1 |
| | 29 | 5.2 |
| | 30 | 5.2 |
| | 31 | 0.0 |
| | 32 | 4.7 |
| | 33 | 0.0 |
| | 34 | 0.1 |
| | 35 | 5.2 |
| | 36 | 3.5 |
| | 37 | 0.0 |
| | 38 | 0.0 |
| | 39 | 3.3 |
| | 40 | 0.0 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| | 41 | 0.0 |
| | 42 | 0.0 |
| | 43 | 0.0 |
| | 44 | 5.2 |
| | 45 | 5.2 |
| | 46 | 5.2 |
| | 47 | 5.2 |
| | 48 | 5.2 |
| | 49 | 0.0 |
| | 50 | 0.0 |
| | 51 | 5.2 |
| | 52 | 0.0 |
| | 53 | 0.0 |
| | 54 | 5.0 |
| | 55 | 5.0 |
| | 56 | 0.0 |
| | 57 | 0.0 |
| | 58 | 5.2 |
| | 59 | 5.2 |
| | 60 | 5.2 |
| | 61 | 5.2 |
| | 62 | 5.2 |
| | 63 | 0.0 |
| | 64 | 5.2 |
| | 65 | 3.3 |
| | 66 | 5.1 |
| | 67 | 5.0 |
| | 68 | 5.1 |
| | 69 | 5.1 |
| | 70 | 0.0 |
| | 71 | 0.0 |
| | 72 | 0.0 |
| | 73 | 0.0 |
| | 74 | 0.1 |
| | 75 | 5.2 |
| | 76 | 0.1 |
| | 77 | 0.1 |
| | 78 | 5.1 |
| | 79 | 5.1 |
| | 80 | 0.0 |
| I202 | 1 | 3.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 3.3 |
| | 5 | 3.3 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I002 | 1 | 0.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 5.2 |
| | 6 | 5.2 |
| | 7 | 0.0 |
| | 8 | 5.2 |
| I003 | 1 | 0.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 5.1 |
| | 5 | 5.2 |
| I205 | 1 | 0.0 |
| | 2 | 5.2 |
| | 3 | 0.0 |
| | 4 | 5.2 |
| | 5 | 0.0 |
| | 6 | 0.0 |
| | 7 | 0.0 |
| | 8 | 0.0 |
| | 9 | 5.2 |
| | 10 | 0.0 |
| | 11 | 5.1 |
| | 12 | 0.0 |
| | 13 | 0.0 |
| | 14 | 0.0 |
| | 15 | 0.0 |
| | 16 | 5.2 |
| | 17 | 0.0 |
| | 18 | 5.2 |
| | 19 | 0.0 |
| | 20 | 5.2 |
| I230 | 1 | 0.0 |
| | 2 | 2.4 |
| | 3 | 0.0 |
| | 4 | 3.3 |
| | 5 | 0.0 |
| | 6 | 3.3 |
| | 7 | 0.0 |
| | 8 | 1.6 |
| | 9 | 0.0 |
| | 10 | 0.0 |
| | 11 | 0.0 |
| | 12 | 1.7 |
| | 13 | 0.0 |
| | 14 | 3.3 |
| | 15 | 0.0 |
| | 16 | 3.3 |
| | 17 | 0.0 |
| | 18 | 2.4 |
| | 19 | 0.0 |
| | 20 | 3.4 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I231 | 1 | 3.4 |
| | 2 | 3.4 |
| | 3 | 1.4 |
| | 4 | 0.0 |
| | 5 | 1.3 |
| | 6 | 3.3 |
| | 7 | 3.4 |
| | 8 | 0.5 |
| | 9 | 1.2 |
| | 10 | 1.3 |
| | 11 | 0.0 |
| | 12 | 1.4 |
| | 13 | 1.4 |
| | 14 | 1.7 |
| | 15 | 1.4 |
| | 16 | 1.2 |
| | 17 | 1.3 |
| | 18 | 0.0 |
| | 19 | 1.3 |
| | 20 | 0.0 |
| | 21 | 0.0 |
| | 22 | 3.4 |
| | 23 | 0.1 |
| | 24 | 1.3 |
| | 25 | 0.0 |
| | 26 | 1.4 |
| | 27 | 3.4 |
| | 28 | 3.4 |
| | 29 | 1.6 |
| | 30 | 1.6 |
| | 31 | 1.5 |
| | 32 | 0.0 |
| | 33 | 1.5 |
| | 34 | 1.7 |
| | 35 | 0.0 |
| | 36 | 1.4 |
| | 37 | 1.3 |
| | 38 | 1.3 |
| | 39 | 0.0 |
| | 40 | 0.0 |
| | 41 | 0.0 |
| | 42 | 0.0 |
| | 43 | 0.0 |
| | 44 | 0.0 |
| | 45 | 0.0 |
| | 46 | 0.0 |
| | 47 | 1.3 |

# DC VOLTAGE TABLES

## PT3-H Signal (Cont.)

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I231 | 48 | 1.3 |
| | 49 | 1.4 |
| | 50 | 0.0 |
| | 51 | 1.2 |
| | 52 | 0.0 |
| | 53 | 0.0 |
| | 54 | 1.5 |
| | 55 | 1.5 |
| | 56 | 0.0 |
| I232 | 1 | 3.4 |
| | 2 | 3.4 |
| | 3 | 1.4 |
| | 4 | 0.0 |
| | 5 | 0.5 |
| | 6 | 0.1 |
| | 7 | 3.4 |
| | 8 | 0.0 |
| | 9 | 1.4 |
| | 10 | 1.3 |
| | 11 | 0.0 |
| | 12 | 1.4 |
| | 13 | 1.3 |
| | 14 | 1.1 |
| | 15 | 1.1 |
| | 16 | 1.1 |
| | 17 | 0.9 |
| | 18 | 0.0 |
| | 19 | 1.4 |
| | 20 | 0.0 |
| | 21 | 0.0 |
| | 22 | 3.4 |
| | 23 | 3.3 |
| | 24 | 0.5 |
| | 25 | 0.0 |
| | 26 | 1.4 |
| | 27 | 3.3 |
| | 28 | 3.4 |
| | 29 | 1.6 |
| | 30 | 0.0 |
| | 31 | 1.5 |
| | 32 | 0.0 |
| | 33 | 1.4 |
| | 34 | 1.4 |
| | 35 | 3.4 |
| | 36 | 1.1 |
| | 37 | 1.1 |
| | 38 | 0.8 |
| | 39 | 0.0 |
| | 40 | 1.4 |
| | 41 | 0.0 |
| | 42 | 0.0 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I232 | 43 | 0.0 |
| | 44 | 0.0 |
| | 45 | 1.4 |
| | 46 | 0.0 |
| | 47 | 1.0 |
| | 48 | 1.2 |
| | 49 | 1.1 |
| | 50 | 3.4 |
| | 51 | 1.4 |
| | 52 | 1.4 |
| | 53 | 0.0 |
| | 54 | 1.4 |
| | 55 | 1.6 |
| | 56 | 0.0 |
| I233 | 1 | 3.3 |
| | 2 | 3.3 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 1.2 |
| | 6 | 0.0 |
| | 7 | 3.4 |
| | 8 | 0.5 |
| | 9 | 1.1 |
| | 10 | 1.4 |
| | 11 | 0.0 |
| | 12 | 1.4 |
| | 13 | 1.4 |
| | 14 | 1.6 |
| | 15 | 1.3 |
| | 16 | 1.6 |
| | 17 | 1.4 |
| | 18 | 0.0 |
| | 19 | 1.9 |
| | 20 | 0.0 |
| | 21 | 0.0 |
| | 22 | 3.4 |
| | 23 | 0.0 |
| | 24 | 1.2 |
| | 25 | 0.0 |
| | 26 | 1.5 |
| | 27 | 3.3 |
| | 28 | 3.4 |
| | 29 | 1.6 |
| | 30 | 0.0 |
| | 31 | 0.0 |
| | 32 | 0.0 |
| | 33 | 1.5 |
| | 34 | 1.3 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I233 | 35 | 3.4 |
| | 36 | 1.2 |
| | 37 | 1.6 |
| | 38 | 1.3 |
| | 39 | 0.0 |
| | 40 | 1.9 |
| | 41 | 0.0 |
| | 42 | 0.0 |
| | 43 | 0.0 |
| | 44 | 0.0 |
| | 45 | 1.9 |
| | 46 | 0.0 |
| | 47 | 1.4 |
| | 48 | 1.6 |
| | 49 | 1.2 |
| | 50 | 3.4 |
| | 51 | 1.6 |
| | 52 | 1.5 |
| | 53 | 0.0 |
| | 54 | 0.0 |
| | 55 | 1.6 |
| | 56 | 0.0 |
| I600 | 1 | 3.4 |
| | 2 | 3.4 |
| | 3 | 3.3 |
| | 4 | 0.0 |
| | 5 | 0.0 |
| | 6 | 3.2 |
| | 7 | 3.3 |
| | 8 | 3.3 |
| | 9 | 3.3 |
| | 10 | 1.6 |
| | 11 | 1.6 |
| | 12 | 1.6 |
| | 13 | 1.6 |
| | 14 | 1.3 |
| | 15 | 1.5 |
| | 16 | 1.4 |
| | 17 | 1.9 |
| | 18 | 3.3 |
| | 19 | 0.0 |
| | 20 | 0.0 |
| | 21 | 1.3 |
| | 22 | 1.3 |
| | 23 | 1.2 |
| | 24 | 1.2 |
| | 25 | 1.2 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I600 | 26 | 1.3 |
| | 27 | 1.5 |
| | 28 | 0.0 |
| | 29 | 3.3 |
| | 30 | 1.5 |
| | 31 | 1.5 |
| | 32 | 1.5 |
| | 33 | 1.5 |
| | 34 | 1.3 |
| | 35 | 1.1 |
| | 36 | 1.6 |
| | 37 | 1.3 |
| | 38 | 3.2 |
| | 39 | 0.0 |
| | 40 | 0.0 |
| | 41 | 3.4 |
| | 42 | 0.0 |
| | 43 | 3.3 |
| | 44 | 1.7 |
| | 45 | 0.0 |
| | 46 | 2.4 |
| | 47 | 3.3 |
| | 48 | 3.3 |
| | 49 | 0.0 |
| | 50 | 0.0 |
| | 51 | 0.0 |
| | 52 | 0.0 |
| | 53 | 0.0 |
| | 54 | 0.0 |
| | 55 | 0.0 |
| | 56 | 0.0 |
| | 57 | 3.3 |
| | 58 | 0.0 |
| | 59 | 0.0 |
| | 60 | 0.0 |
| | 61 | 0.0 |
| | 62 | 0.0 |
| | 63 | 0.0 |
| | 64 | 0.0 |
| | 65 | 0.0 |
| | 66 | 3.2 |
| | 67 | 0.0 |
| | 68 | 0.0 |
| | 69 | 0.0 |
| | 70 | 0.0 |
| | 71 | 0.0 |
| | 72 | 0.0 |
| | 73 | 0.0 |
| | 74 | 0.0 |
| | 75 | 0.0 |

# DC VOLTAGE TABLES

PT3-H Signal (Cont.)

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| I600 | 76 | 0.0 |
| | 77 | 0.0 |
| | 78 | 3.3 |
| | 79 | 0.0 |
| | 80 | 3.0 |
| | 81 | 3.0 |
| | 82 | 3.2 |
| | 83 | 0.0 |
| | 84 | 3.2 |
| | 85 | 3.0 |
| | 86 | 3.0 |
| | 87 | 0.0 |
| | 88 | 0.0 |
| | 89 | 0.0 |
| | 90 | 3.0 |
| | 91 | 3.0 |
| | 92 | 0.0 |
| | 93 | 3.0 |
| | 94 | 3.0 |
| | 95 | 3.2 |
| | 96 | 3.1 |
| | 97 | 3.3 |
| | 98 | 0.0 |
| | 99 | 0.0 |
| | 100 | 3.3 |
| I602 | 1 | 7.2 |
| | 2 | 9.9 |
| | 3 | 2.6 |
| | 4 | 5.0 |
| | 5 | -4.6 |
| | 6 | -9.4 |
| | 7 | -9.4 |
| | 8 | 0.0 |
| | 9 | 5.2 |
| | 10 | 4.3 |
| | 11 | 5.2 |
| | 12 | 5.0 |
| | 13 | -6.7 |
| | 14 | -8.4 |
| | 15 | 0.0 |
| | 16 | 5.2 |
| I603 | 1 | 0.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 3.4 |
| | 5 | 3.4 |
| I920 | 1 | 1.2 |
| | 2 | 0.1 |
| | 3 | 3.3 |
| | 4 | 5.5 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| IC401 | 1 | 6.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 6.0 |
| | 6 | 0.0 |
| | 7 | 6.1 |
| | 8 | 6.1 |
| | 9 | 0.0 |
| | 10 | 6.0 |
| | 11 | 1.1 |
| | 12 | 0.0 |
| | 13 | 5.0 |
| | 14 | 5.0 |
| | 15 | 0.0 |
| | 16 | 12.0 |
| | 17 | 0.0 |
| | 18 | 4.9 |
| | 19 | 1.4 |
| | 20 | 1.4 |
| | 21 | 1.8 |
| | 22 | 6.0 |
| | 23 | 6.0 |
| | 24 | 6.0 |
| | 25 | 6.0 |
| | 26 | 6.0 |
| | 27 | 6.0 |
| | 28 | 6.0 |
| | 29 | 6.0 |
| | 30 | 6.0 |
| IC402 | 1 | 6.0 |
| | 2 | 6.0 |
| | 3 | 6.0 |
| | 4 | 6.0 |
| | 5 | 6.0 |
| | 6 | 6.0 |
| | 7 | 6.0 |
| | 8 | 6.0 |
| | 9 | 6.0 |
| | 10 | 6.0 |
| | 11 | 6.0 |
| | 12 | 6.0 |
| | 13 | 0.0 |
| | 14 | 0.0 |
| | 15 | 0.0 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| | 16 | 12.0 |
| | 17 | 6.0 |
| | 18 | 6.0 |
| | 19 | 0.0 |
| | 20 | 12.0 |
| | 21 | 12.0 |
| | 22 | 5.4 |
| | 23 | 10.0 |
| | 24 | 10.0 |
| | 25 | 6.0 |
| | 26 | 6.0 |
| | 27 | 6.0 |
| | 28 | 6.0 |
| | 29 | 0.8 |
| | 30 | 0.8 |
| IC403 | 1 | 6.1 |
| | 2 | 6.1 |
| | 3 | 6.1 |
| | 4 | 6.1 |
| | 5 | 6.1 |
| | 6 | 0.0 |
| | 7 | 0.0 |
| | 8 | 0.0 |
| | 9 | 4.9 |
| | 10 | 0.0 |
| | 11 | 0.1 |
| | 12 | 0.1 |
| | 13 | 4.2 |
| | 14 | 0.1 |
| | 15 | 4.2 |
| | 16 | 7.6 |
| IC404 | 1 | 0.0 |
| | 2 | 0.0 |
| | 3 | 0.0 |
| | 4 | 0.0 |
| | 5 | 0.0 |
| | 6 | 0.0 |
| | 7 | 0.0 |
| | 8 | 5.0 |
| | 9 | 2.5 |
| | 10 | 2.5 |
| | 11 | 0.0 |
| | 12 | 2.5 |
| | 13 | 2.5 |
| | 14 | 2.4 |
| | 15 | 0.0 |
| | 16 | 0.0 |

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| IC404 | 17 | 0.0 |
| | 18 | 0.0 |
| | 19 | 0.0 |
| | 20 | 0.0 |
| | 21 | 0.0 |
| | 22 | 14.2 |
| | 23 | 0.0 |
| | 24 | 14.2 |
| | 25 | 14.2 |
| | 26 | 0.0 |
| | 27 | 0.0 |
| | 28 | 0.0 |
| | 29 | 23.4 |
| | 30 | 5.1 |
| | 31 | 16.8 |
| | 32 | 6.8 |
| IC405 | 1 | 0.0 |
| | 2 | 15.2 |
| | 3 | 12.0 |
| | 4 | 12.0 |
| | 5 | 15.2 |
| IP02 | 1 | 6.7 |
| | 2 | 3.6 |
| | 3 | 0.0 |
| | 4 | 3.3 |
| | 5 | 2.3 |
| Q001 | B | 0.9 |
| | C | 0.1 |
| | E | 0.0 |
| Q005 | B | 4.4 |
| | C | 5.0 |
| | E | 5.1 |
| Q006 | B | 5.1 |
| | C | 0.1 |
| | E | 5.1 |
| Q201 | S | 3.2 |
| | D | 4.9 |
| | G | 3.3 |
| Q202 | S | 3.3 |
| | D | 5.0 |
| | G | 3.3 |
| Q401 | B | 0.0 |
| | C | 11.5 |
| | E | 0.0 |
| Q402 | B | 0.0 |
| | C | 11.5 |
| | E | 0.0 |

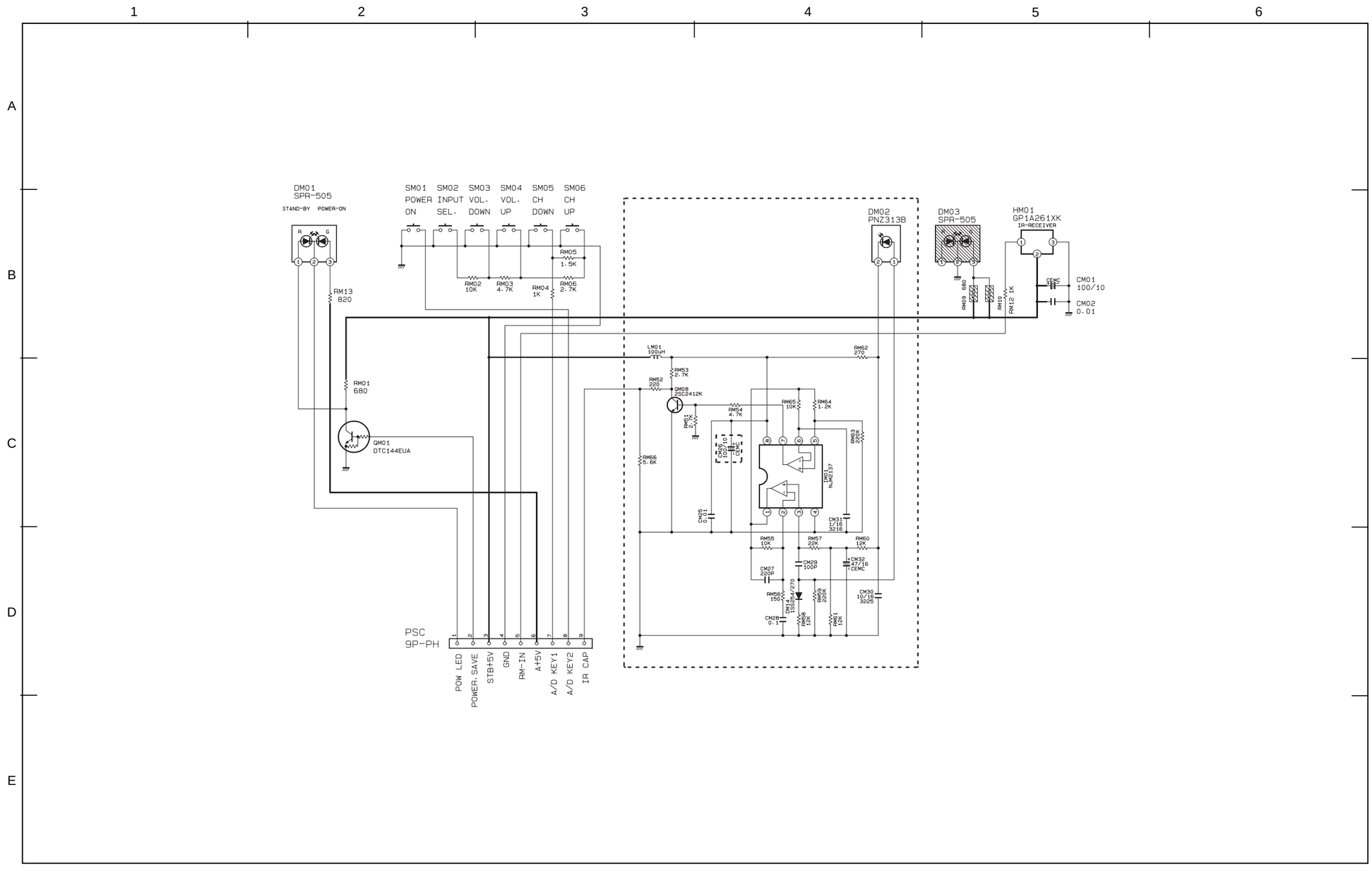
# DC VOLTAGE TABLES

PT3-H Signal (Cont.)

| Symbol | Pin No. | DC Voltage |
|---|---|---|
| Q403 | B | 0.0 |
| | C | 0.0 |
| | E | 0.0 |
| Q404 | B | 1.3 |
| | C | 0.0 |
| | E | 0.0 |
| Q405 | B | 1.3 |
| | C | 0.0 |
| | E | 0.0 |
| Q406 | B | 5.0 |
| | C | 0.0 |
| | E | 0.0 |
| Q407 | B | -0.1 |
| | C | 0.0 |
| | E | 0.0 |
| Q408 | B | 0.0 |
| | C | 0.0 |
| | E | 0.0 |
| Q600 | S | 3.3 |
| | D | 5.0 |
| | G | 3.4 |
| Q601 | S | 3.3 |
| | D | 5.0 |
| | G | 3.4 |
| Q602 | 1 | 0.0 |
| | 2 | 0.1 |
| | 3 | 0.1 |
| | 4 | 0.0 |
| | 5 | 0.7 |
| | 6 | 3.9 |
| Q920 | B | 0.7 |
| | C | 0.1 |
| | E | 0.0 |
| Q930 | B | 1.0 |
| | C | 0.3 |
| | E | 0.3 |

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



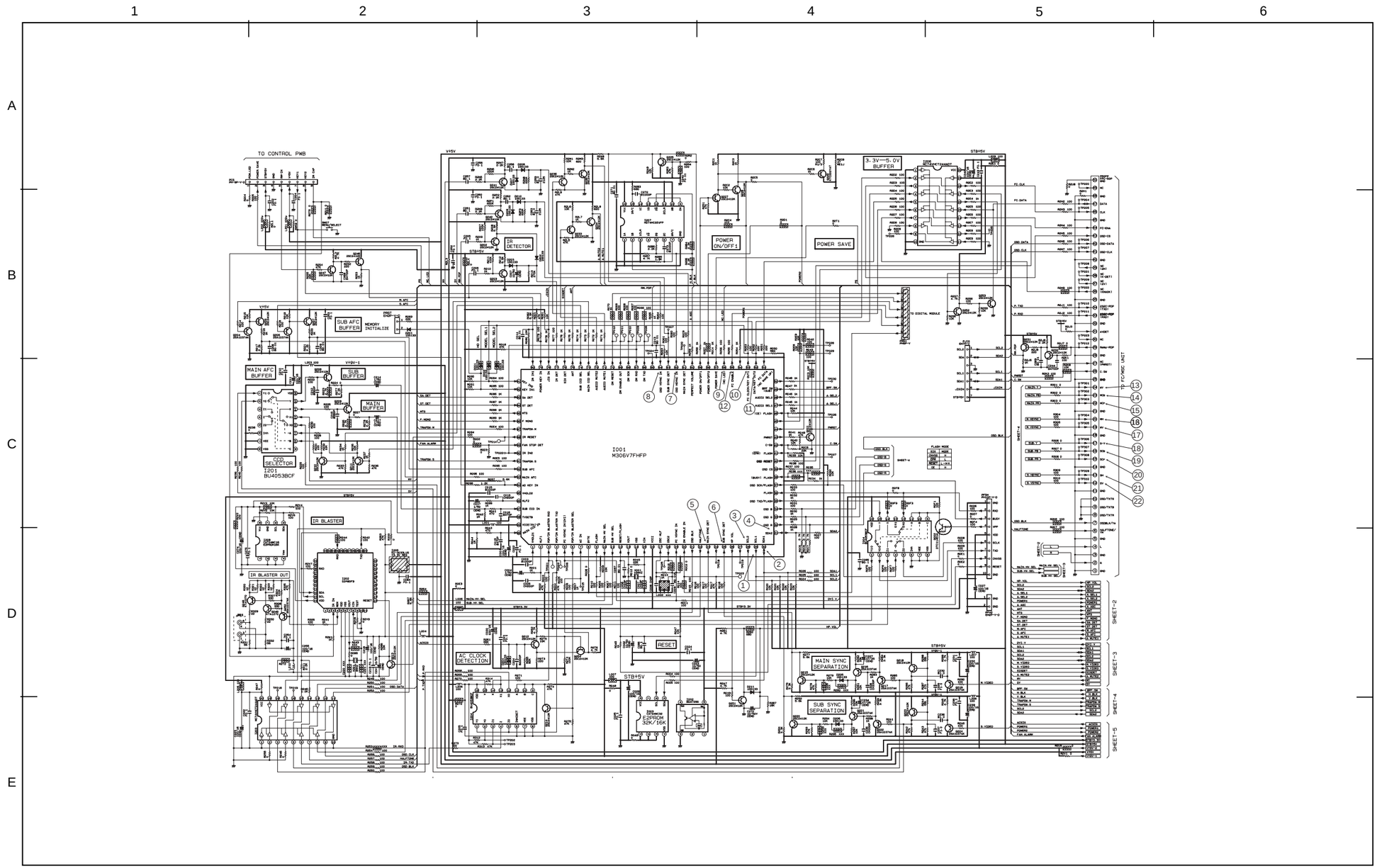

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Control

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM





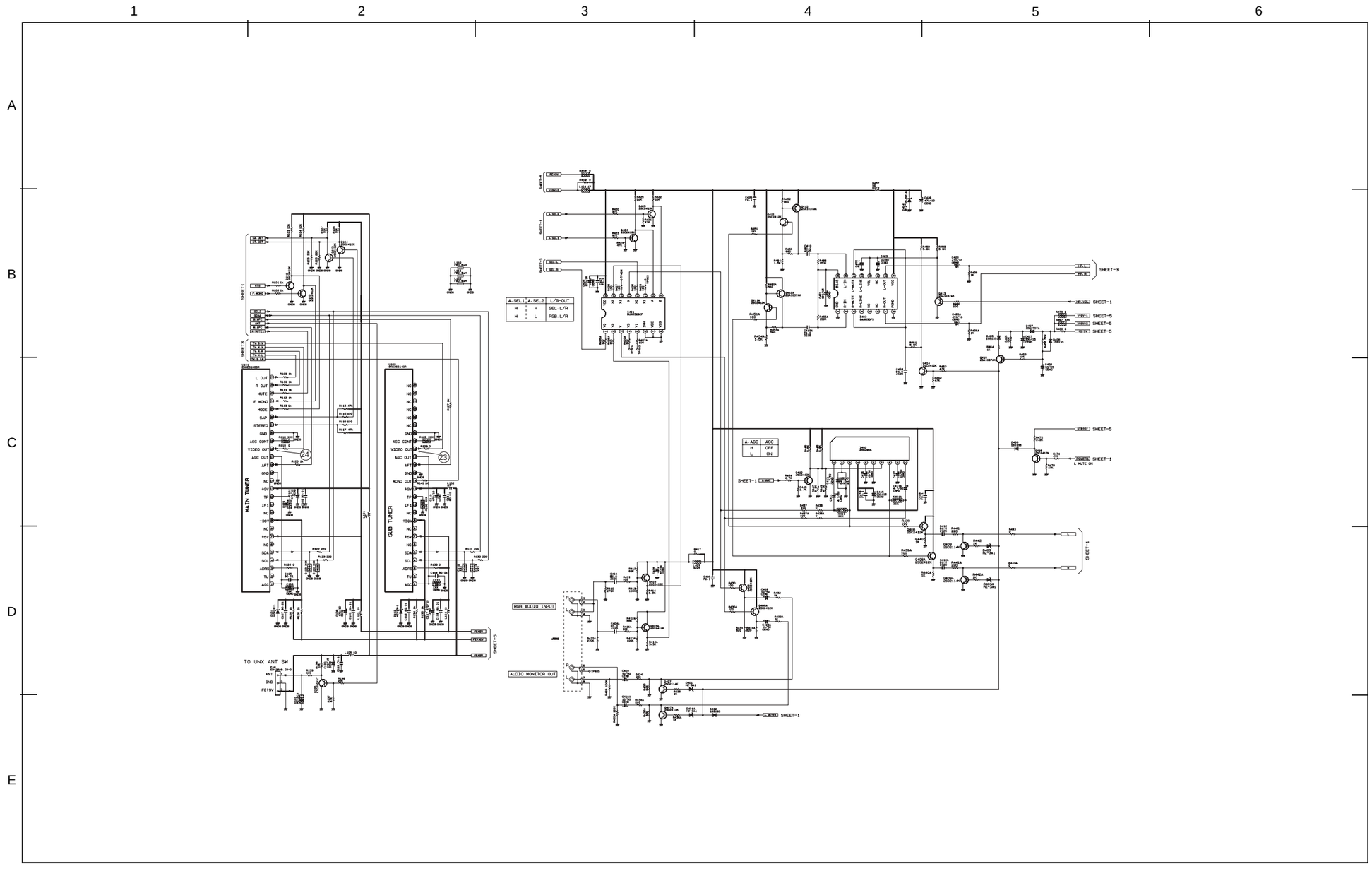

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U MPU

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM





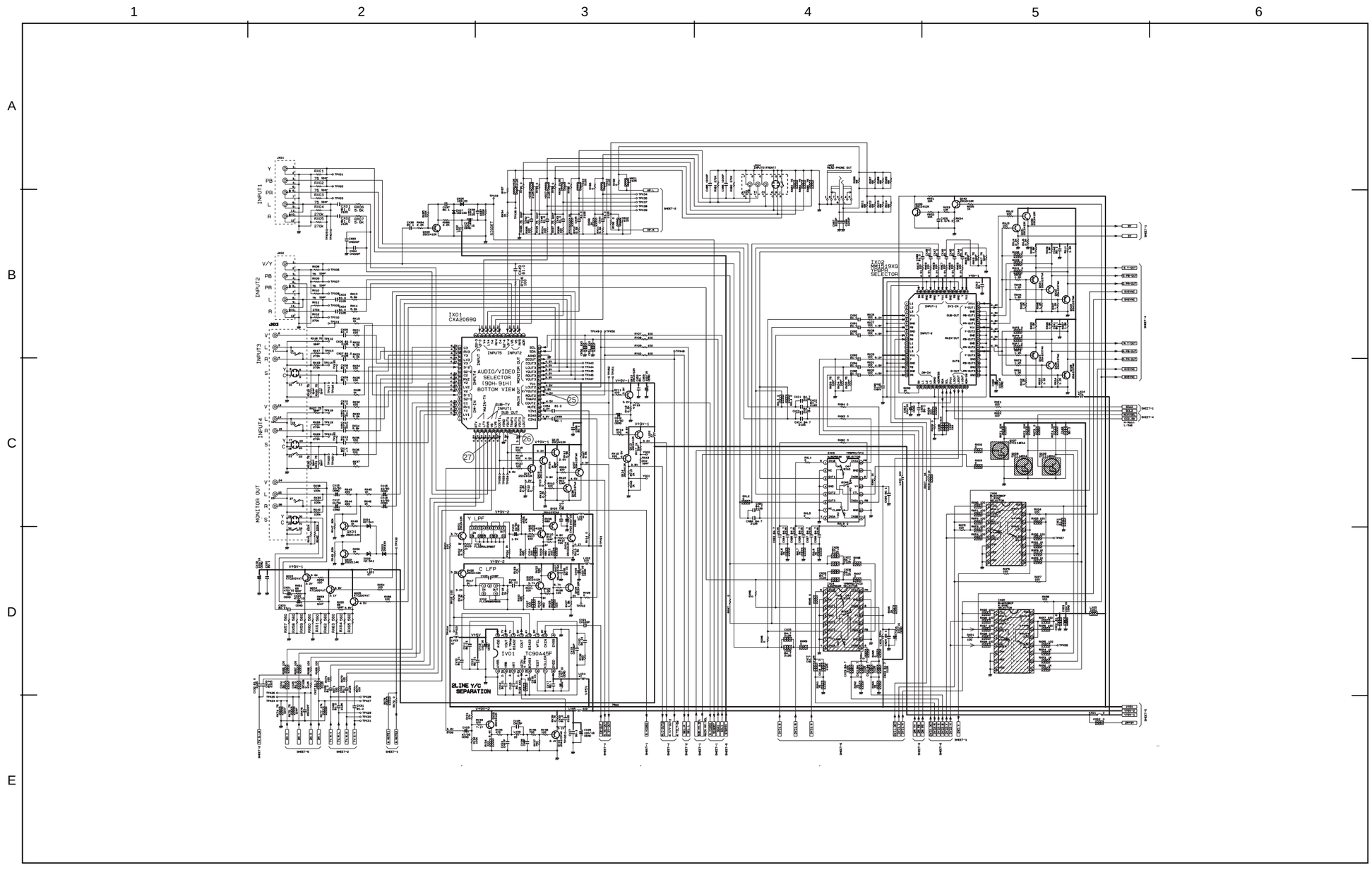

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Tuner/Audio

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM

PT3-H AVC3-U
Input

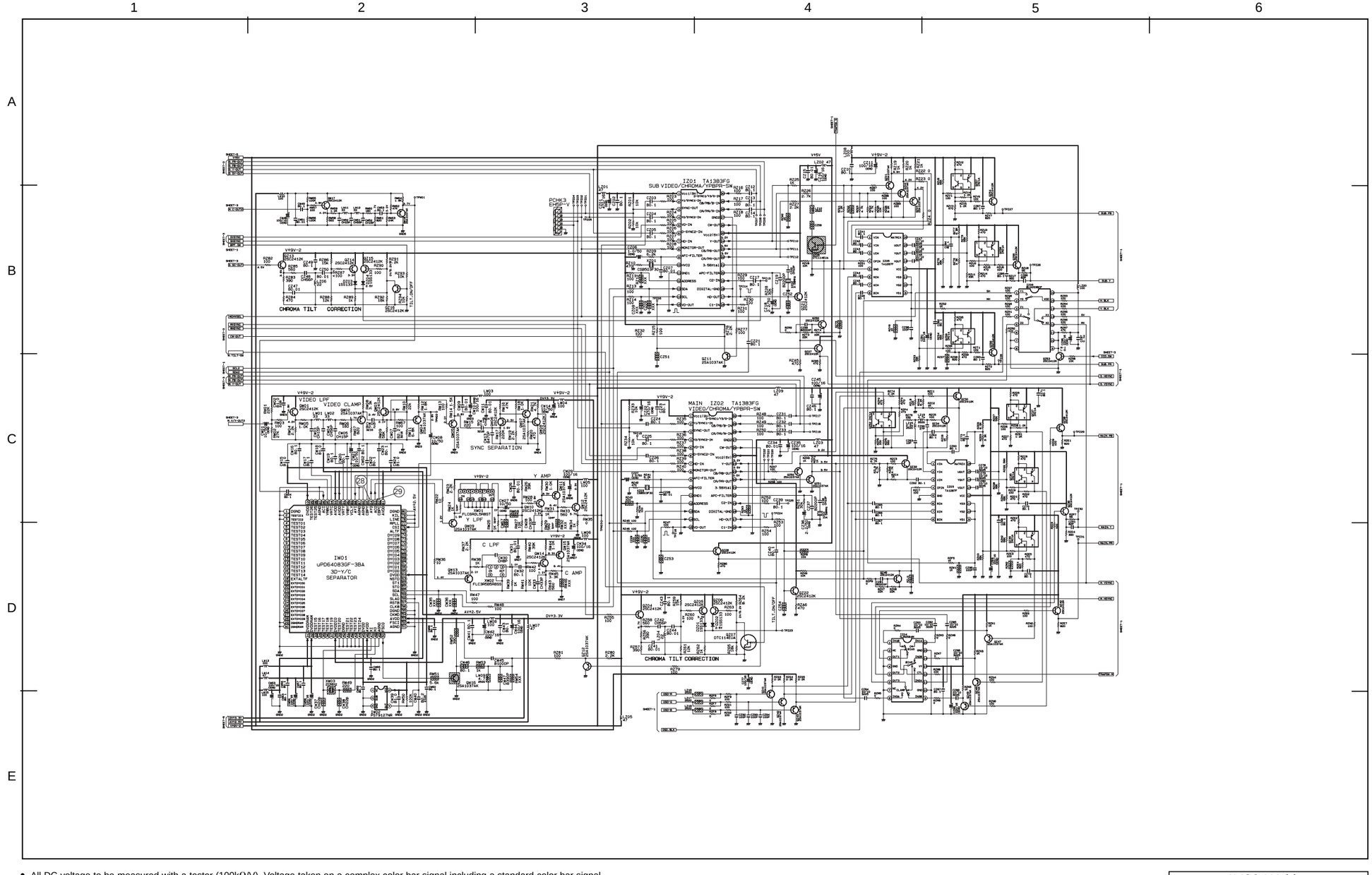



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Input

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM

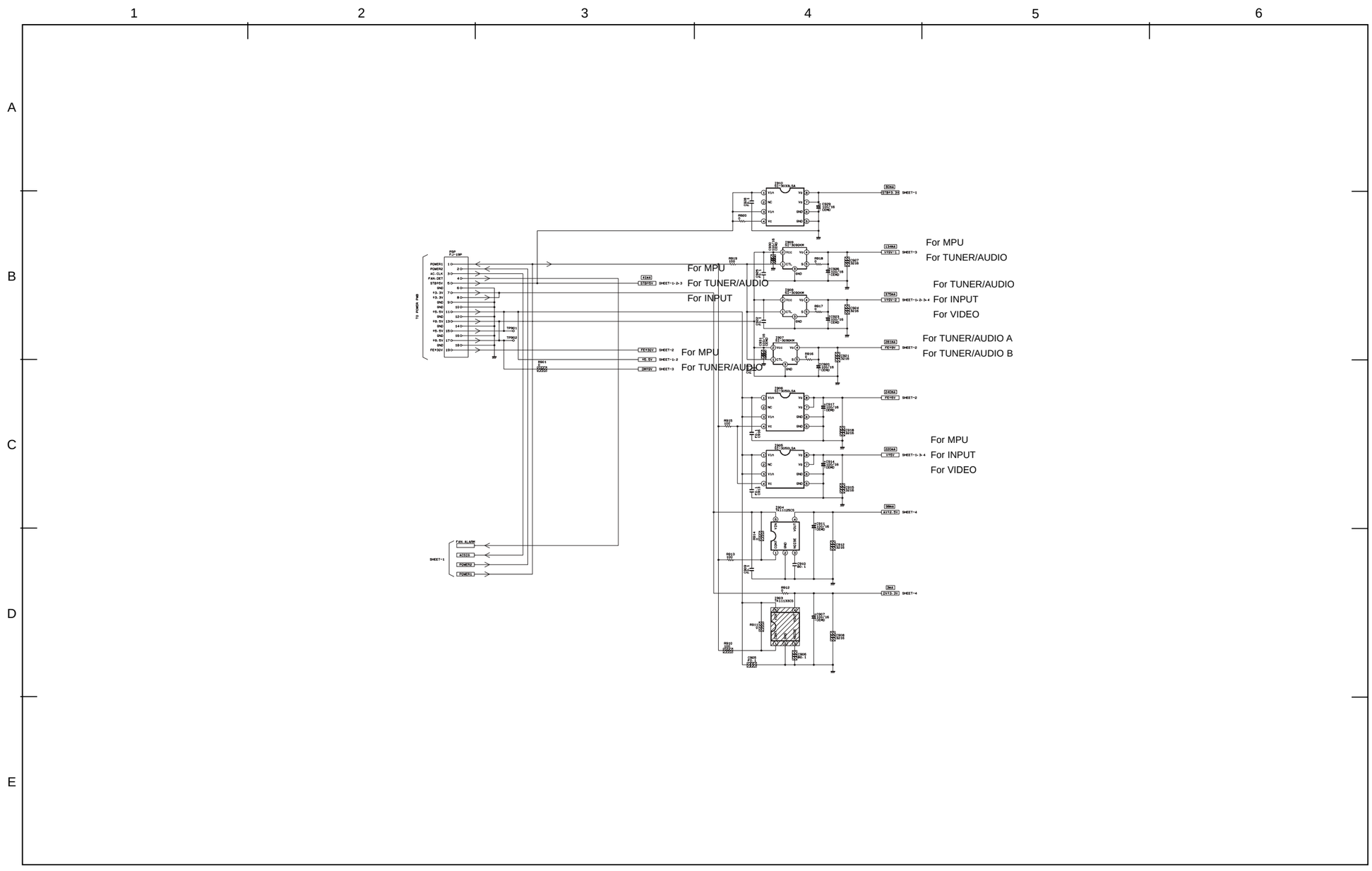



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Video

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



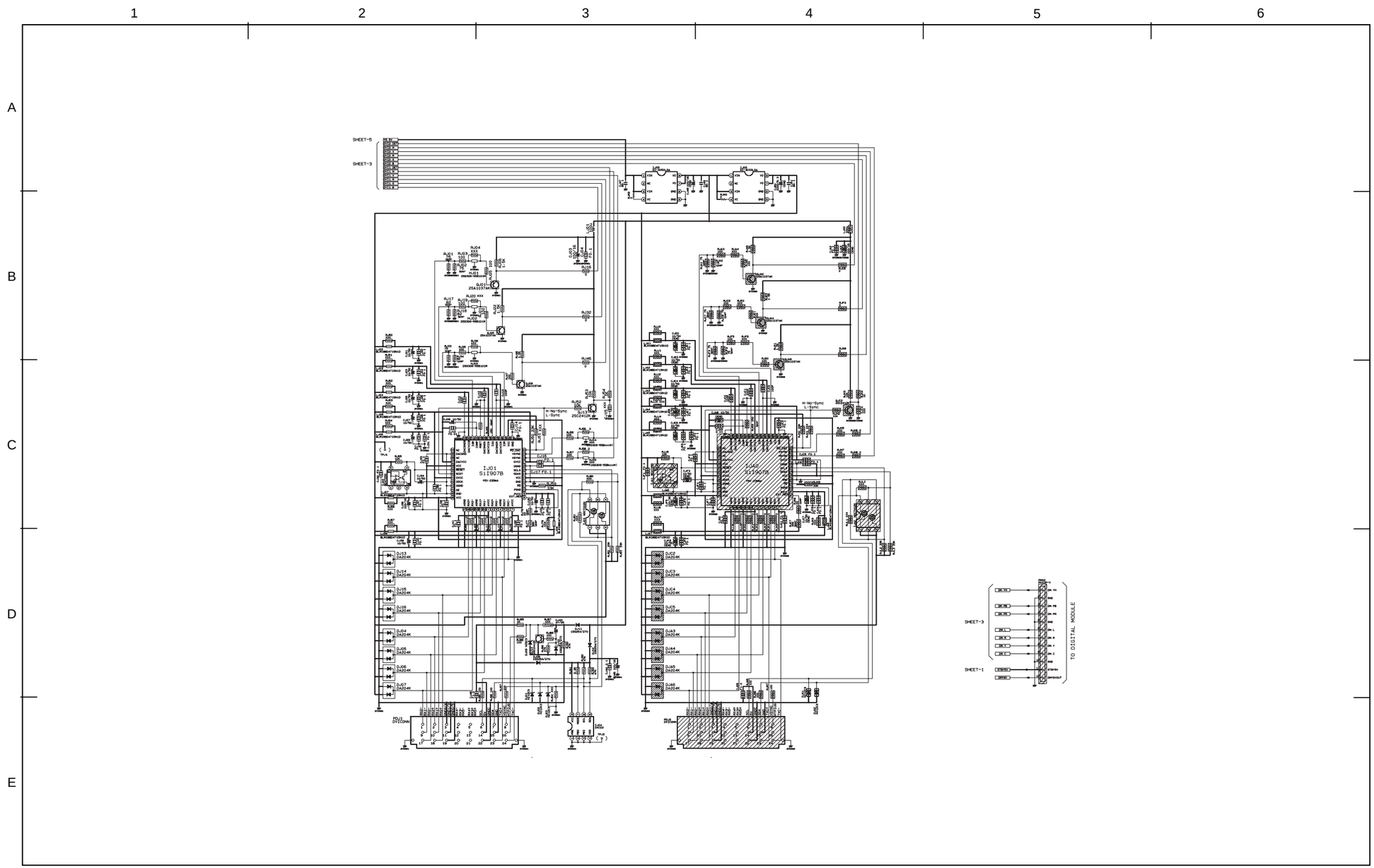

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Power

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM

PT3-H AVC3-U
DVI

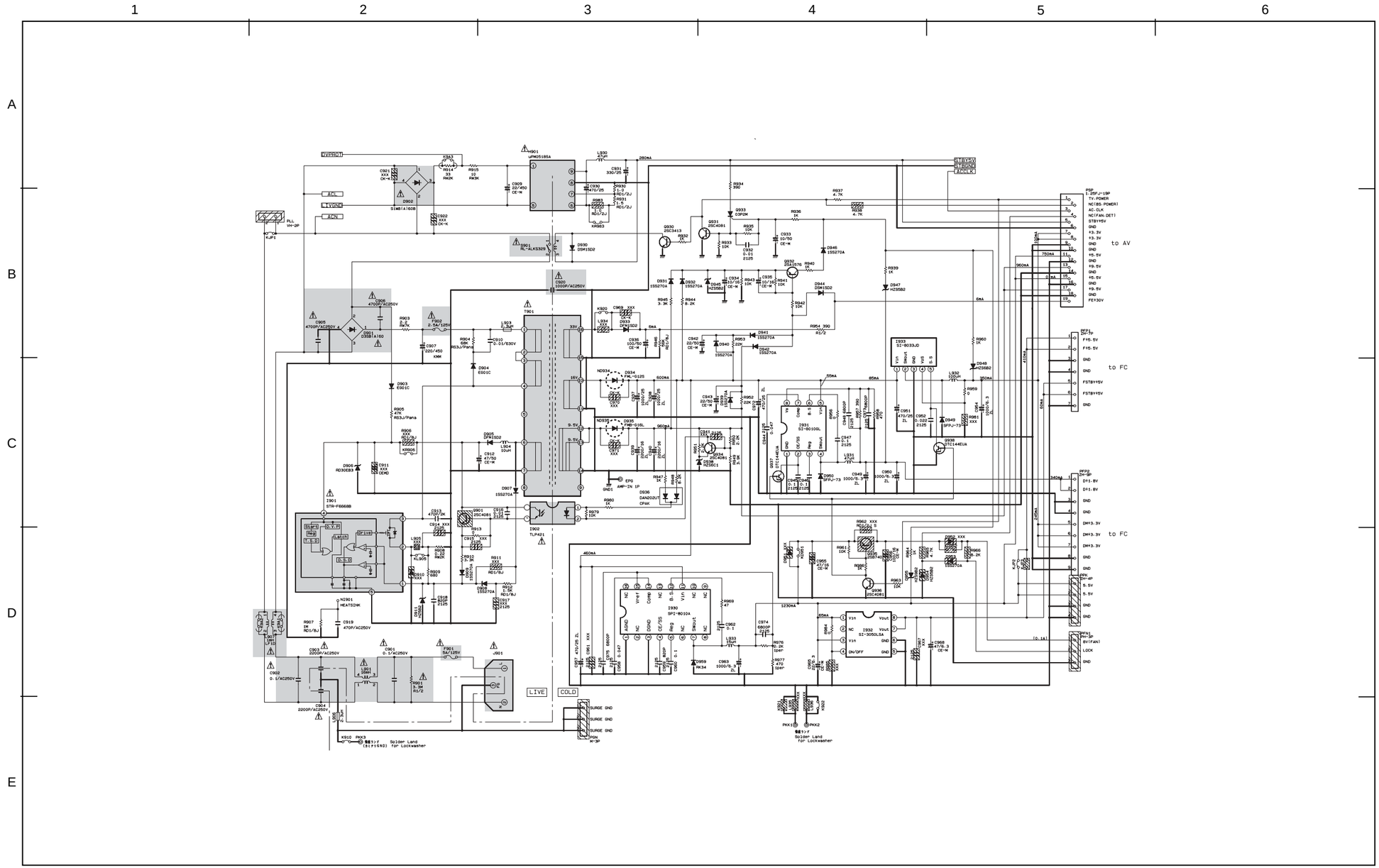



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U DVI

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM

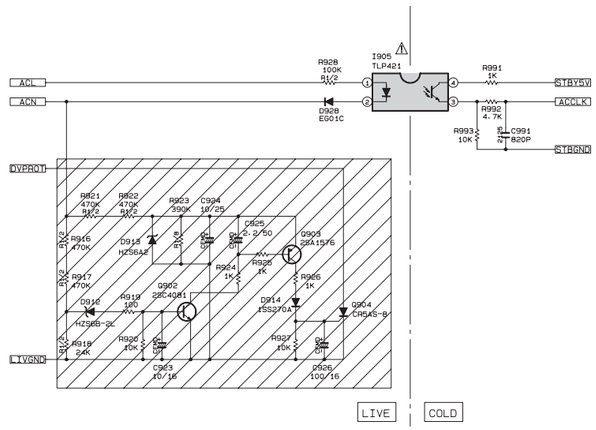



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Power (1/2)

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



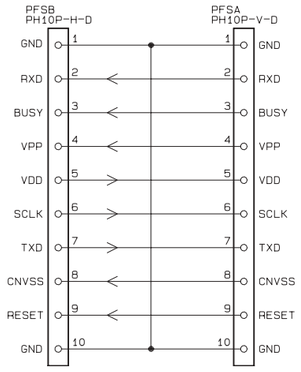

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U Power (2/2)

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM

PT3-H AVC3-U
AV Jig



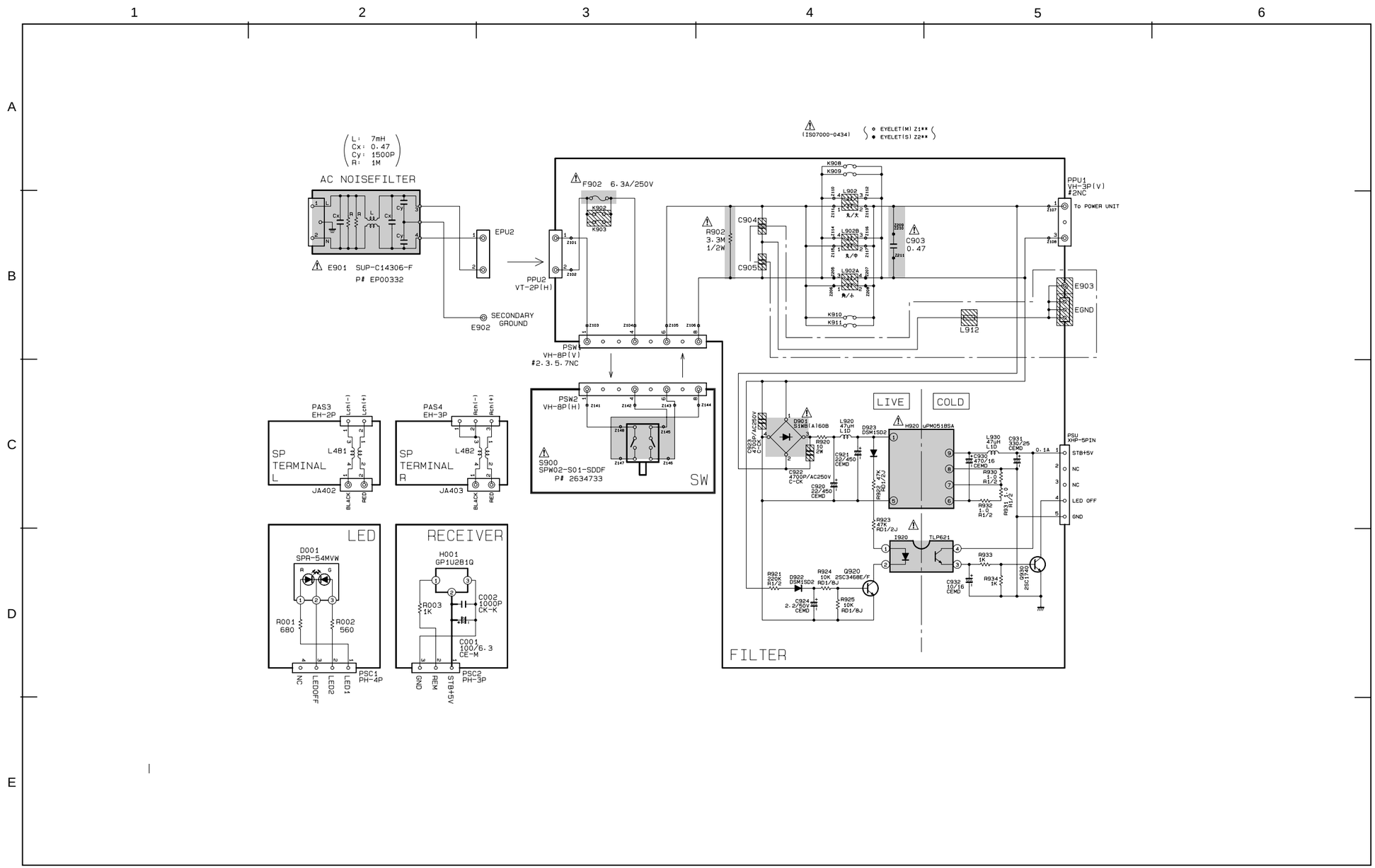

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

AVC3-U AV Jig

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



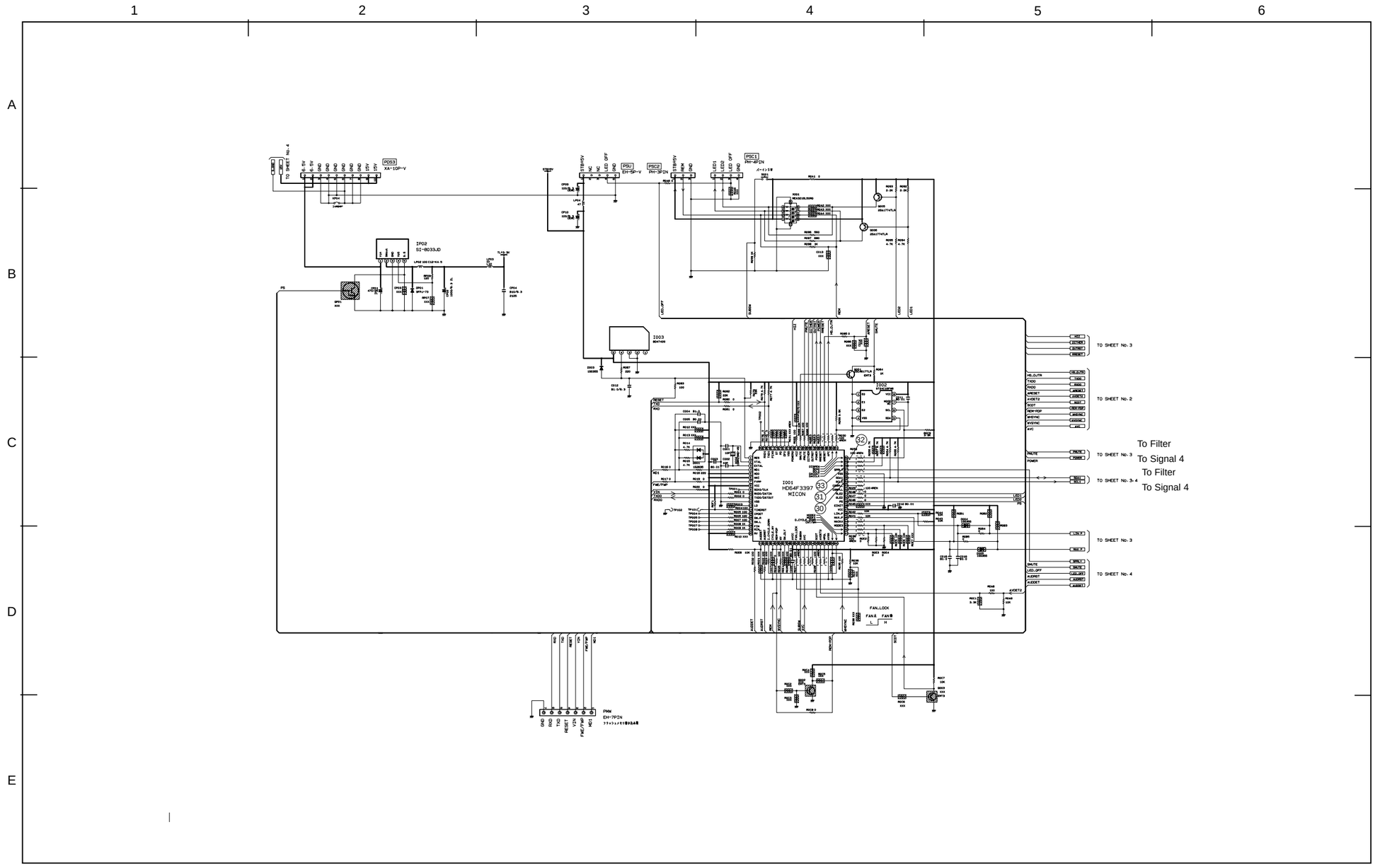



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PT3-H Filter

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



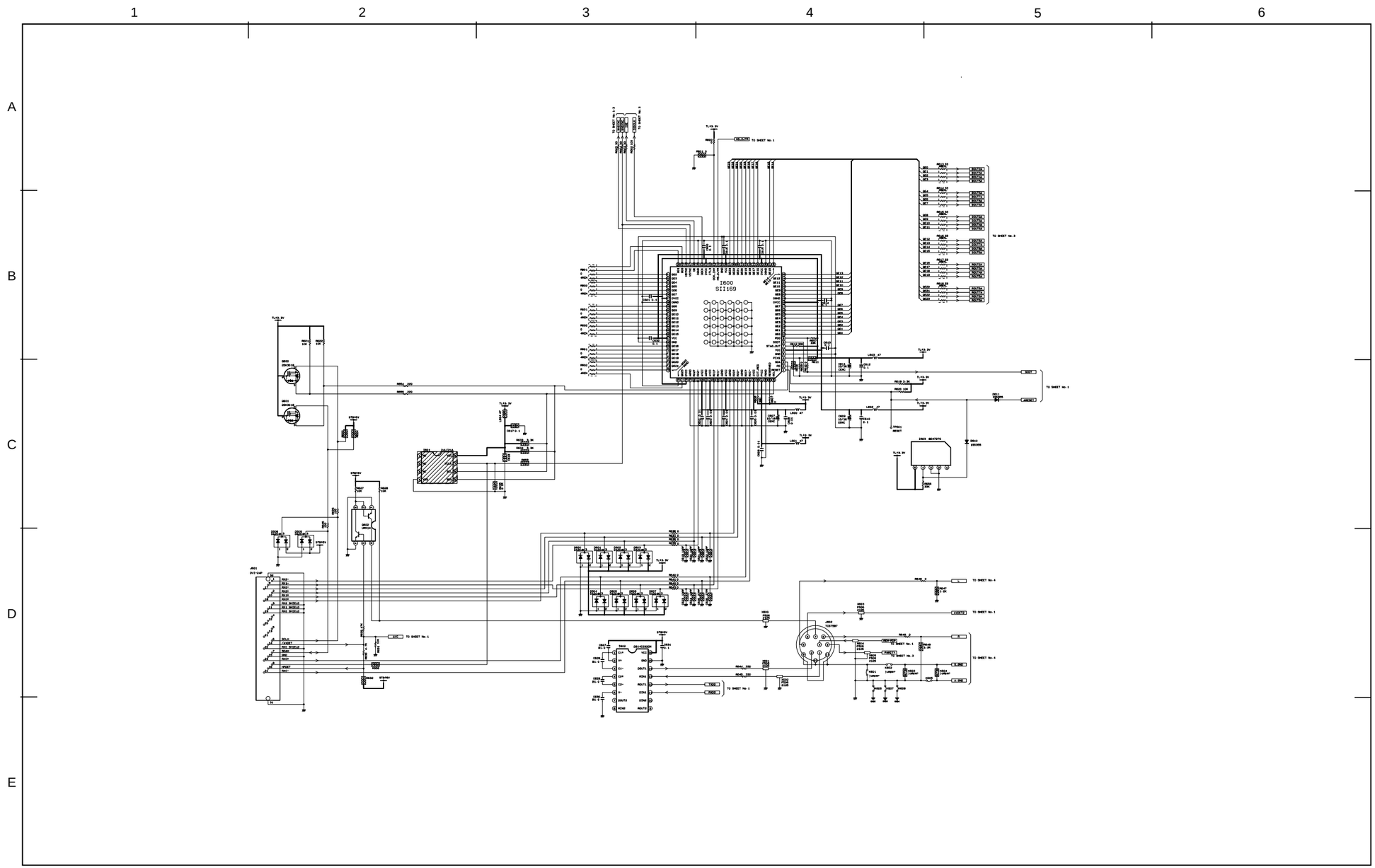

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PT3-H Signal/Audio 1

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



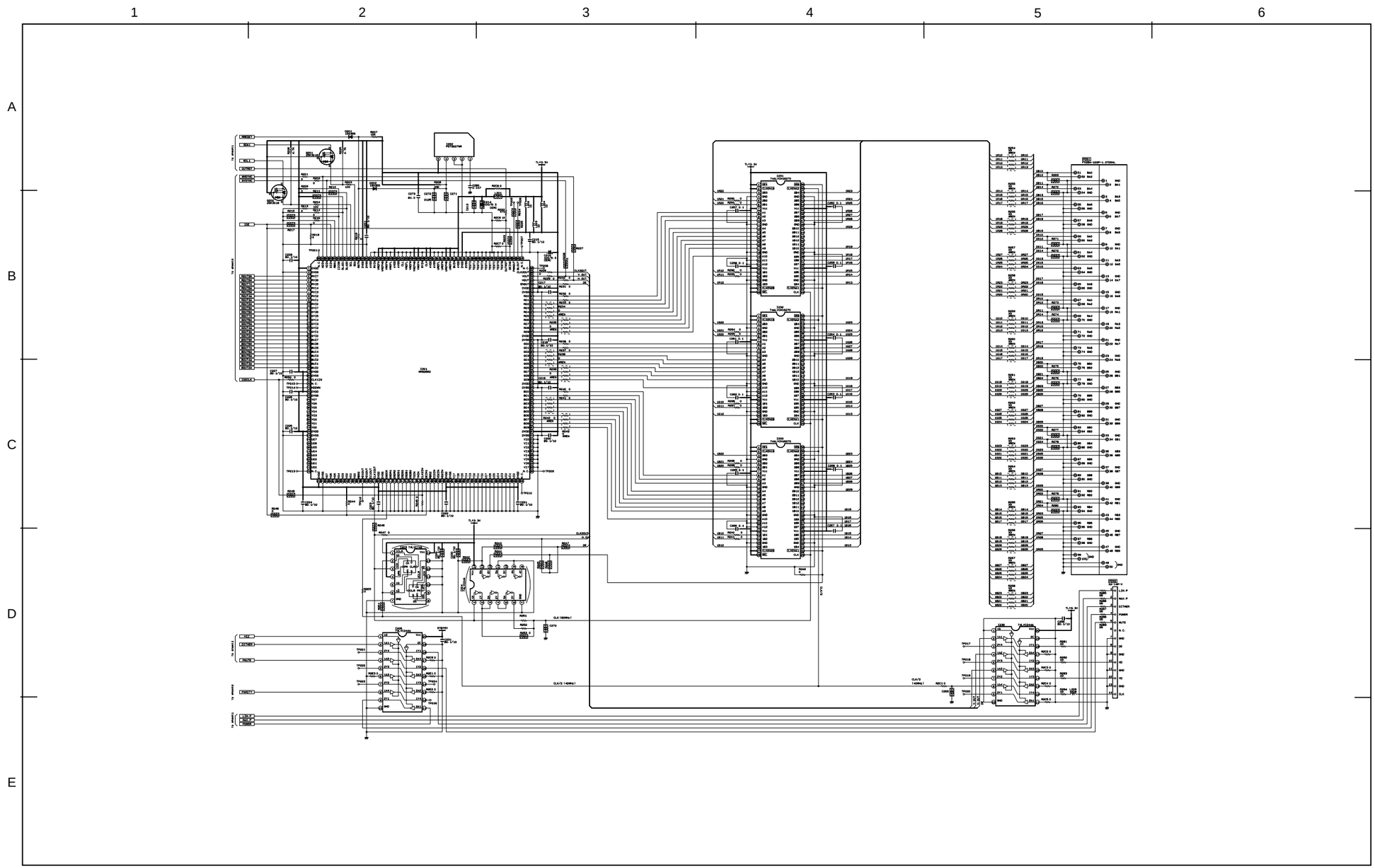



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PT3-H Signal/Audio 2

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



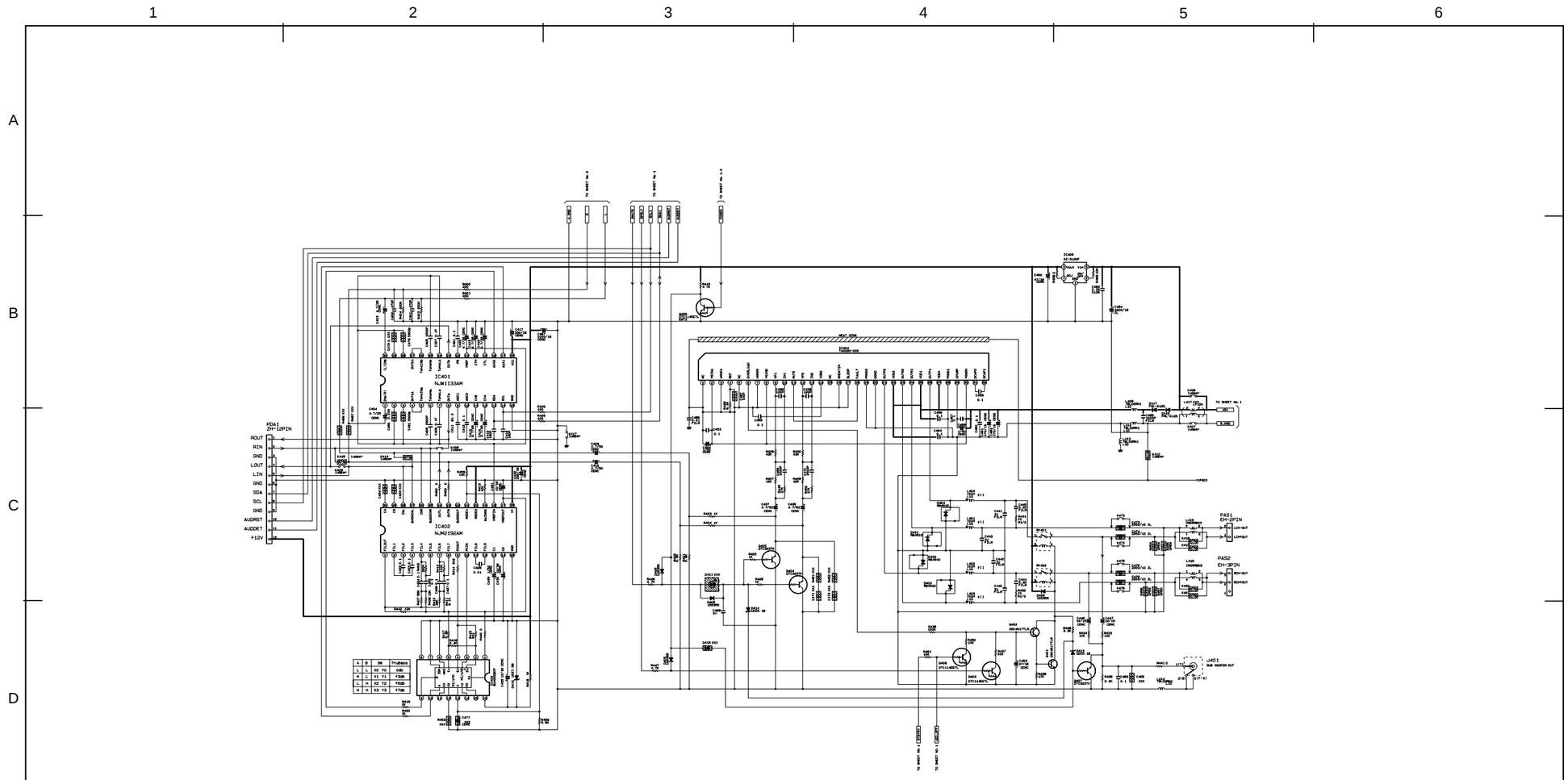

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PT3-H Signal/Audio 3

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

# BASIC CIRCUIT DIAGRAM



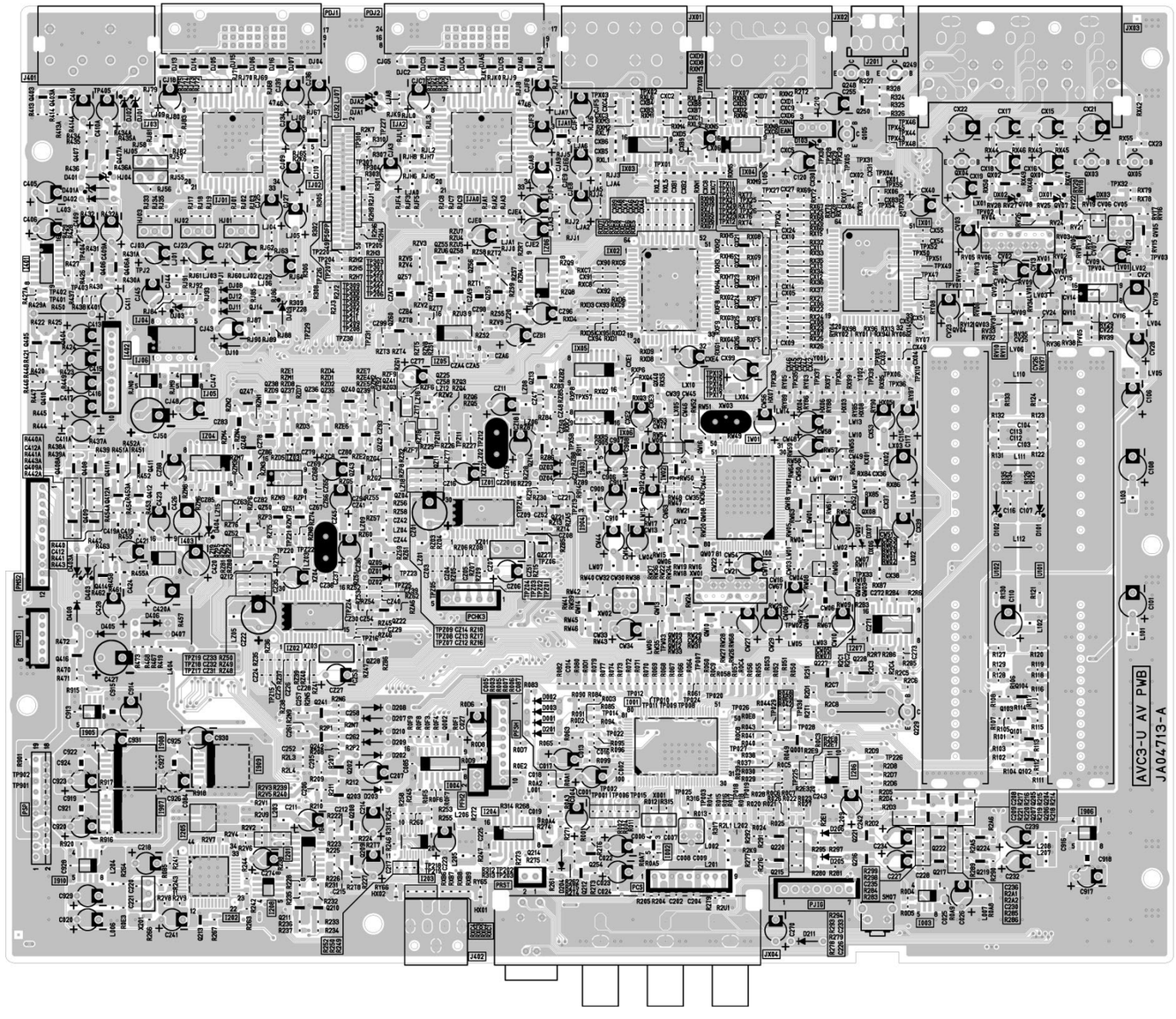



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PT3-H Signal/Audio 4

# PRINTED CIRCUIT BOARD

AVC3-U Audio/Video PWB

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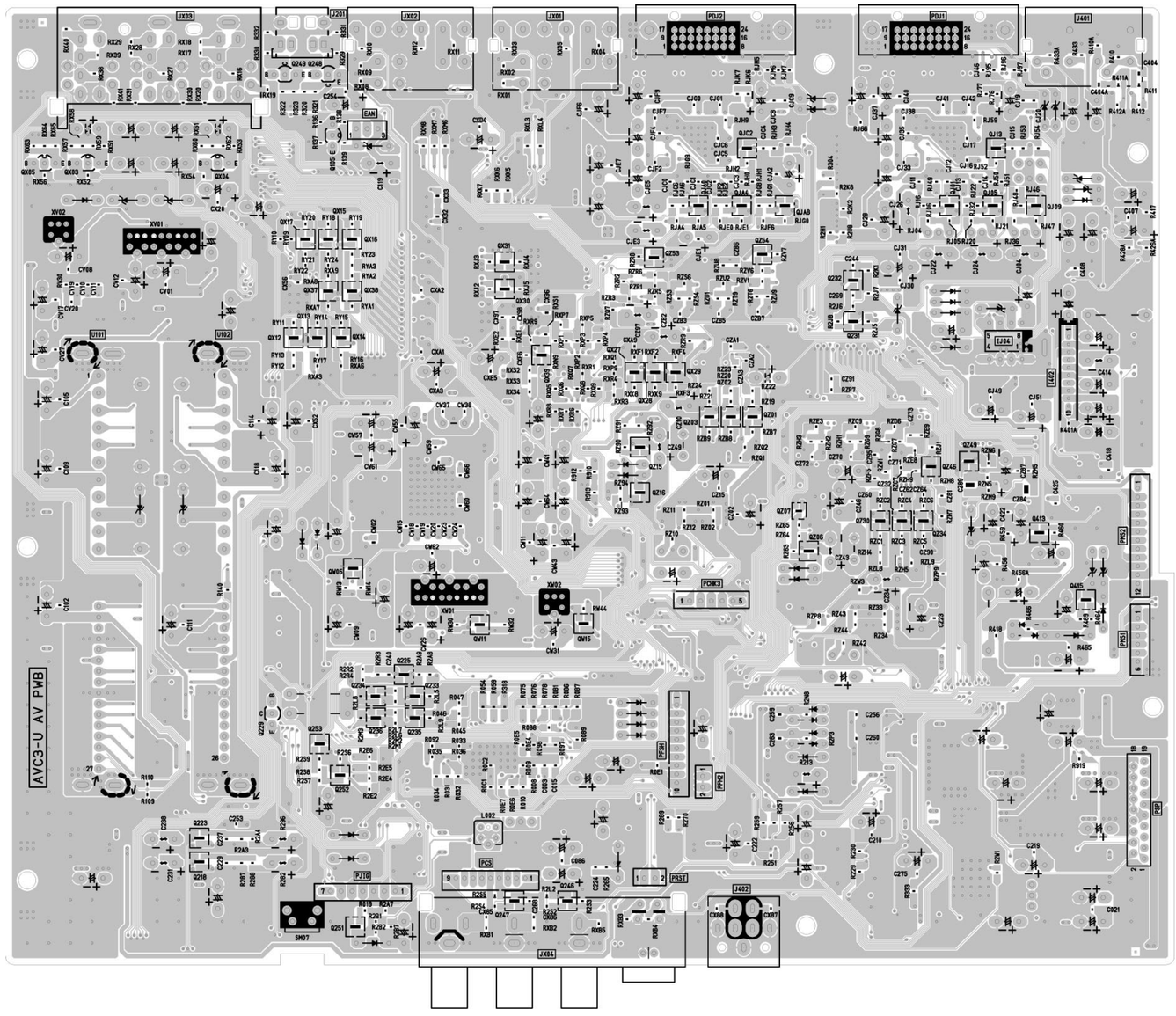
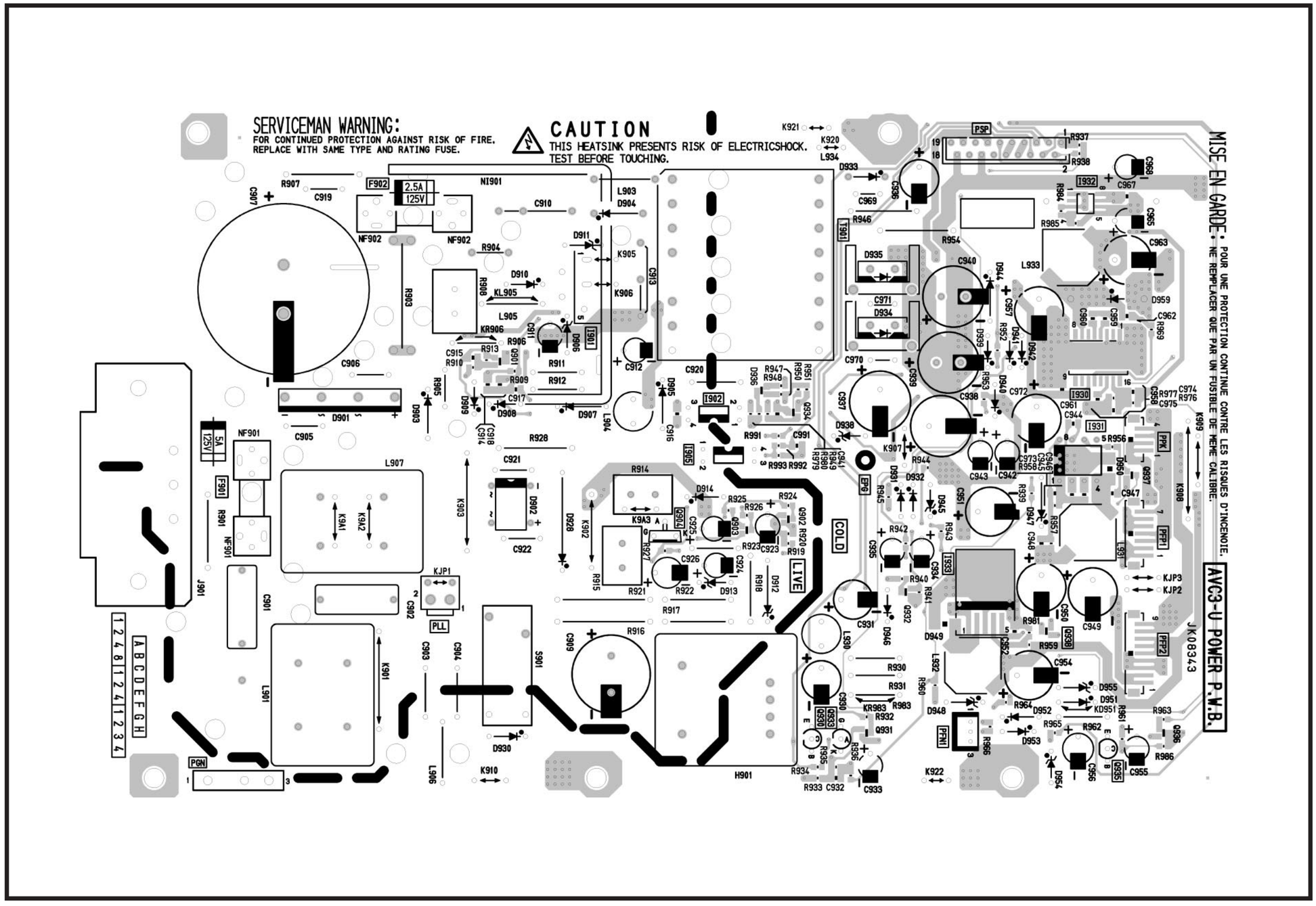
# PRINTED CIRCUIT BOARD

AVC3-U Audio/Video PWB



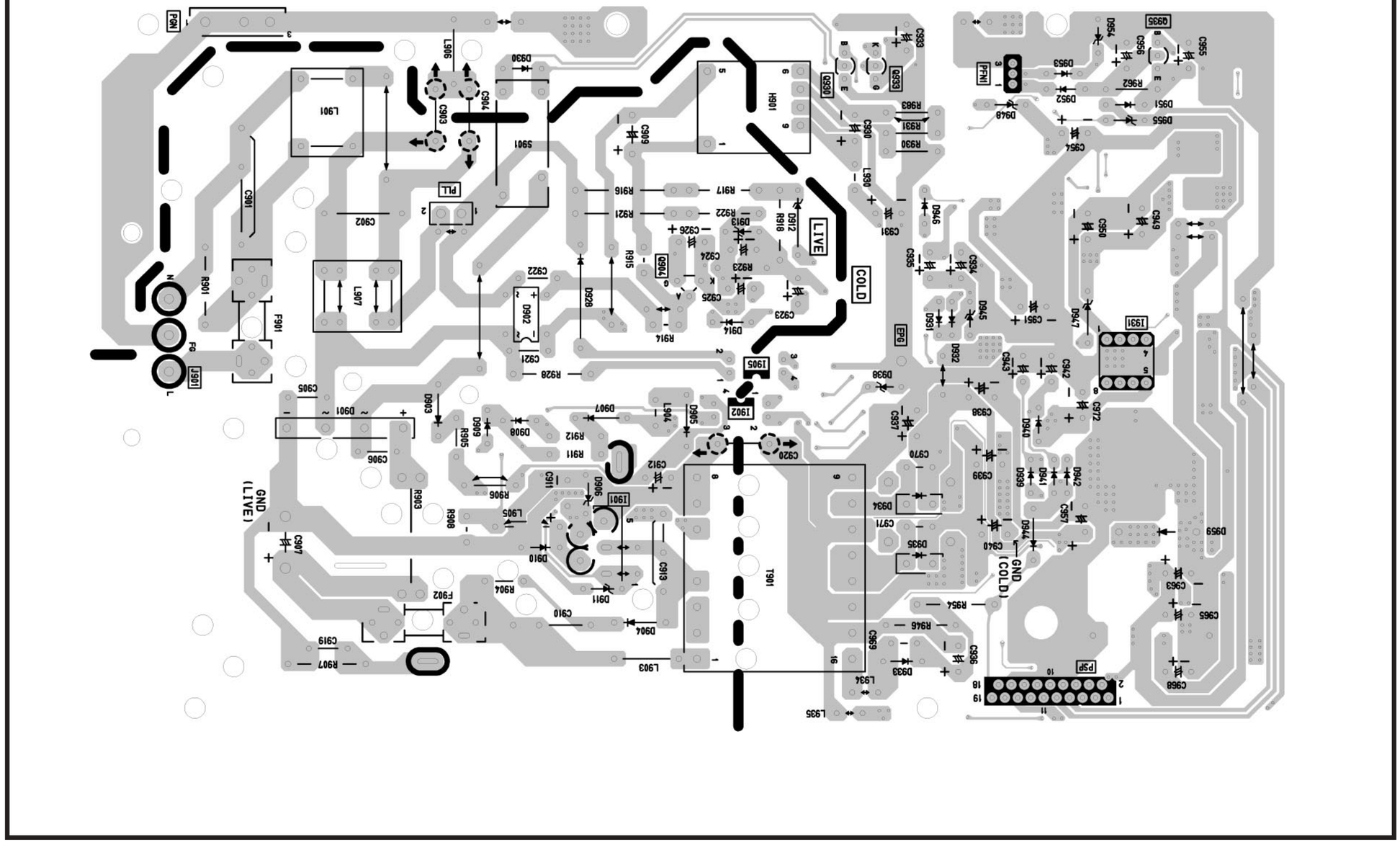
# PRINTED CIRCUIT BOARD

AVC3-U Power PWB



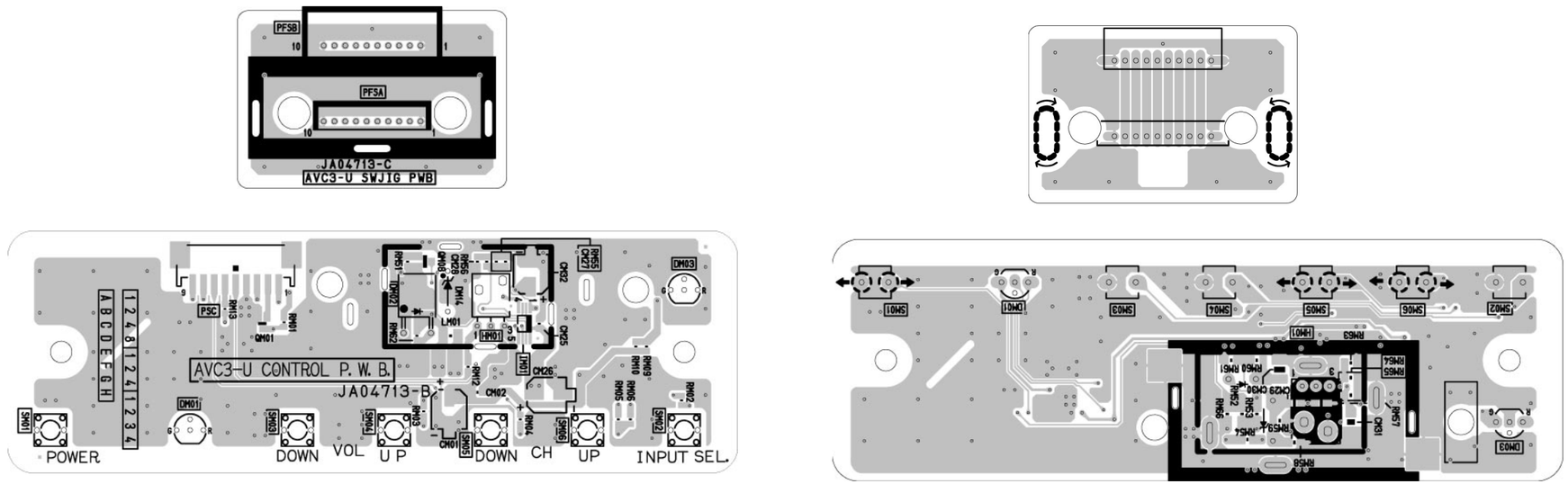
# PRINTED CIRCUIT BOARD

AVC3-U Power PWB

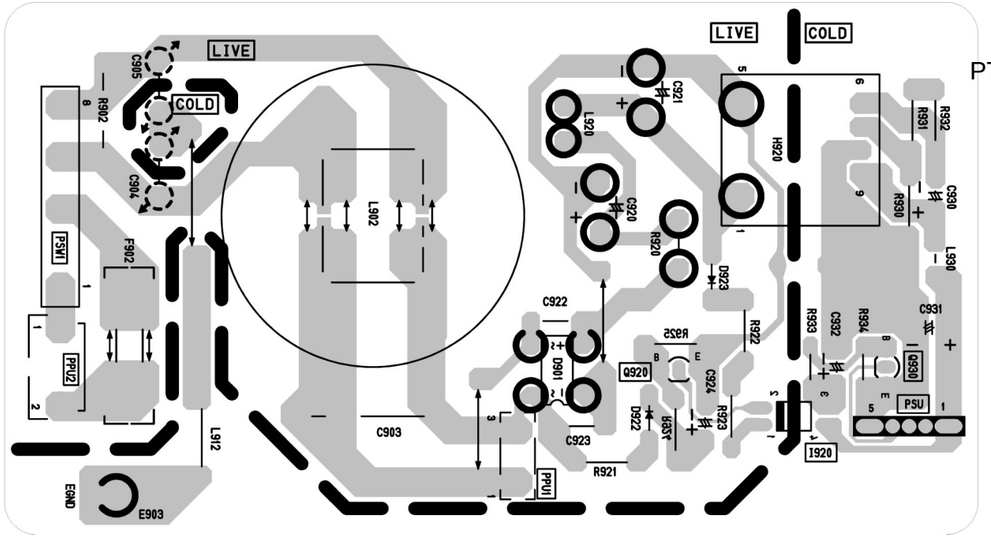


# PRINTED CIRCUIT BOARD

AVC3-U Control/SW Jig PWB

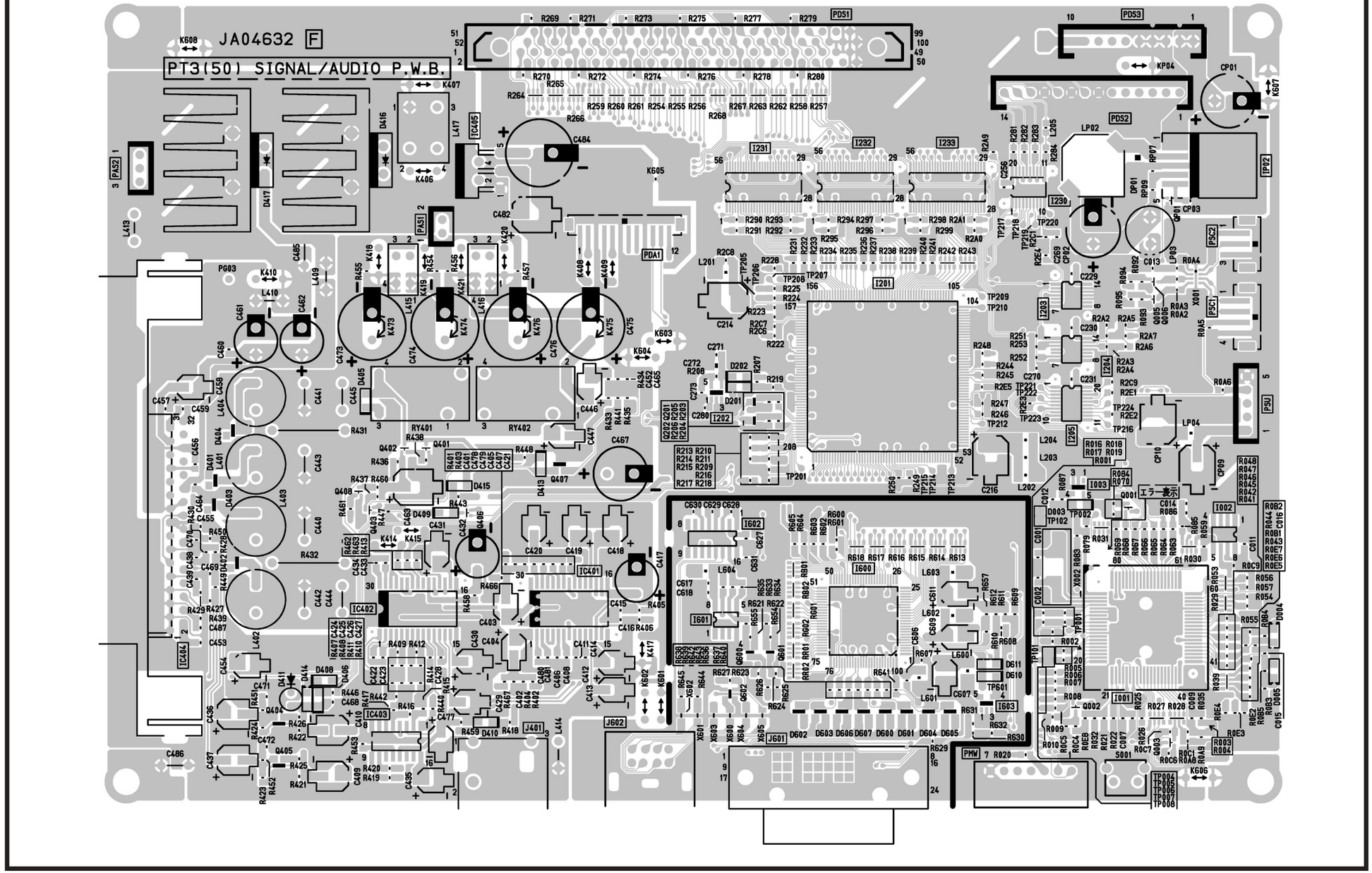



PT3-H FILTER PWB



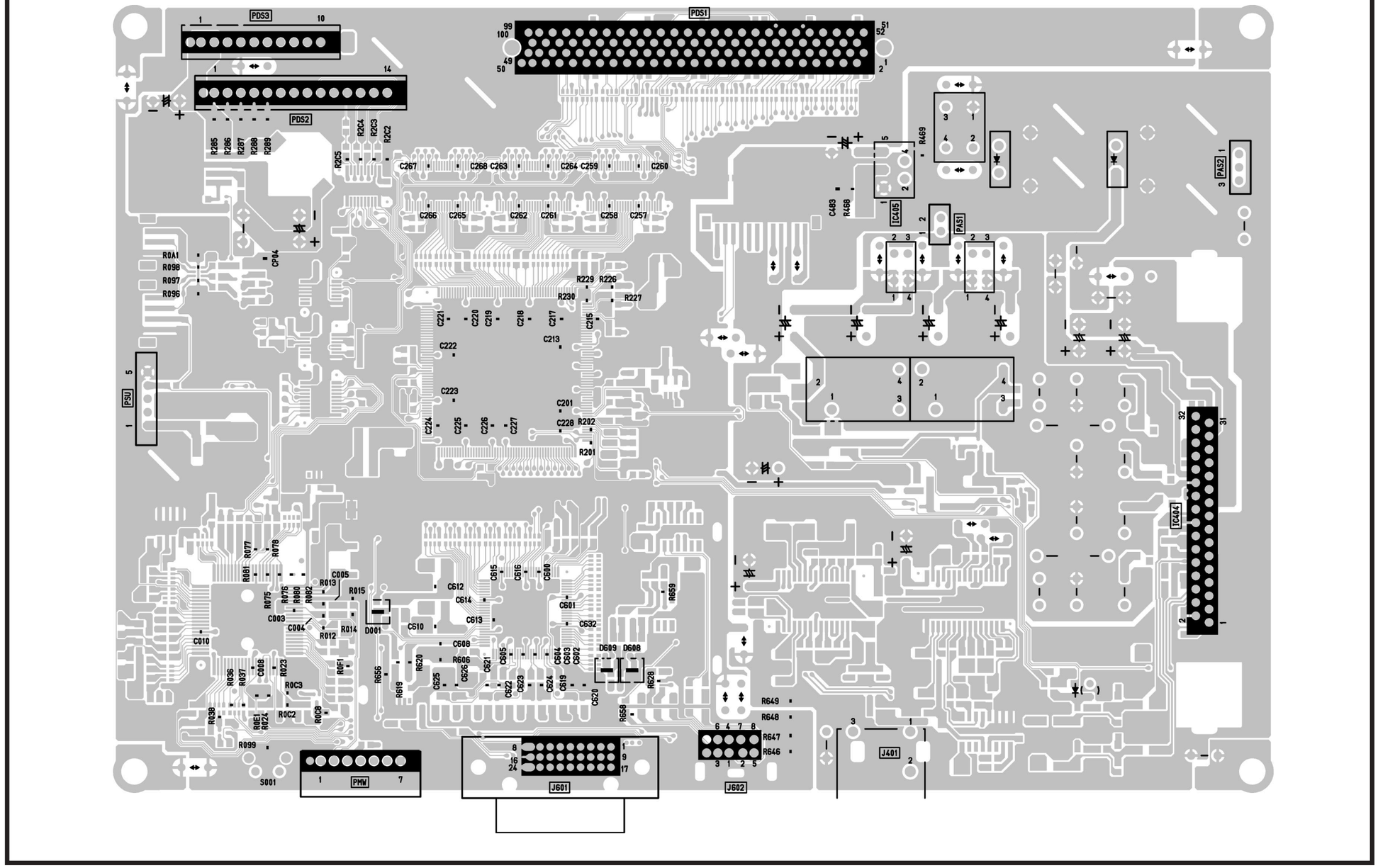
# PRINTED CIRCUIT BOARD

PT3-H Signal/Audio PWB

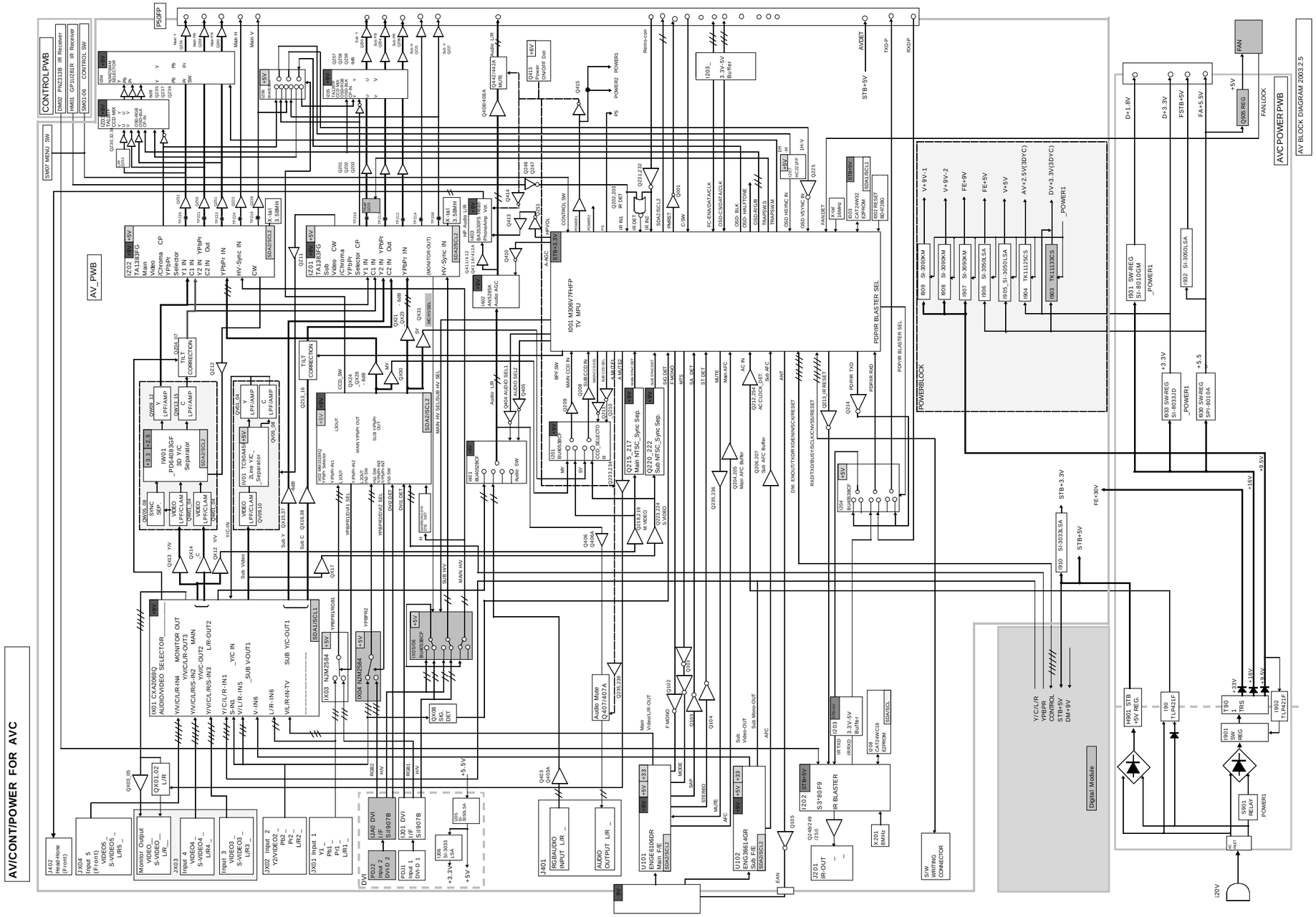


# PRINTED CIRCUIT BOARD

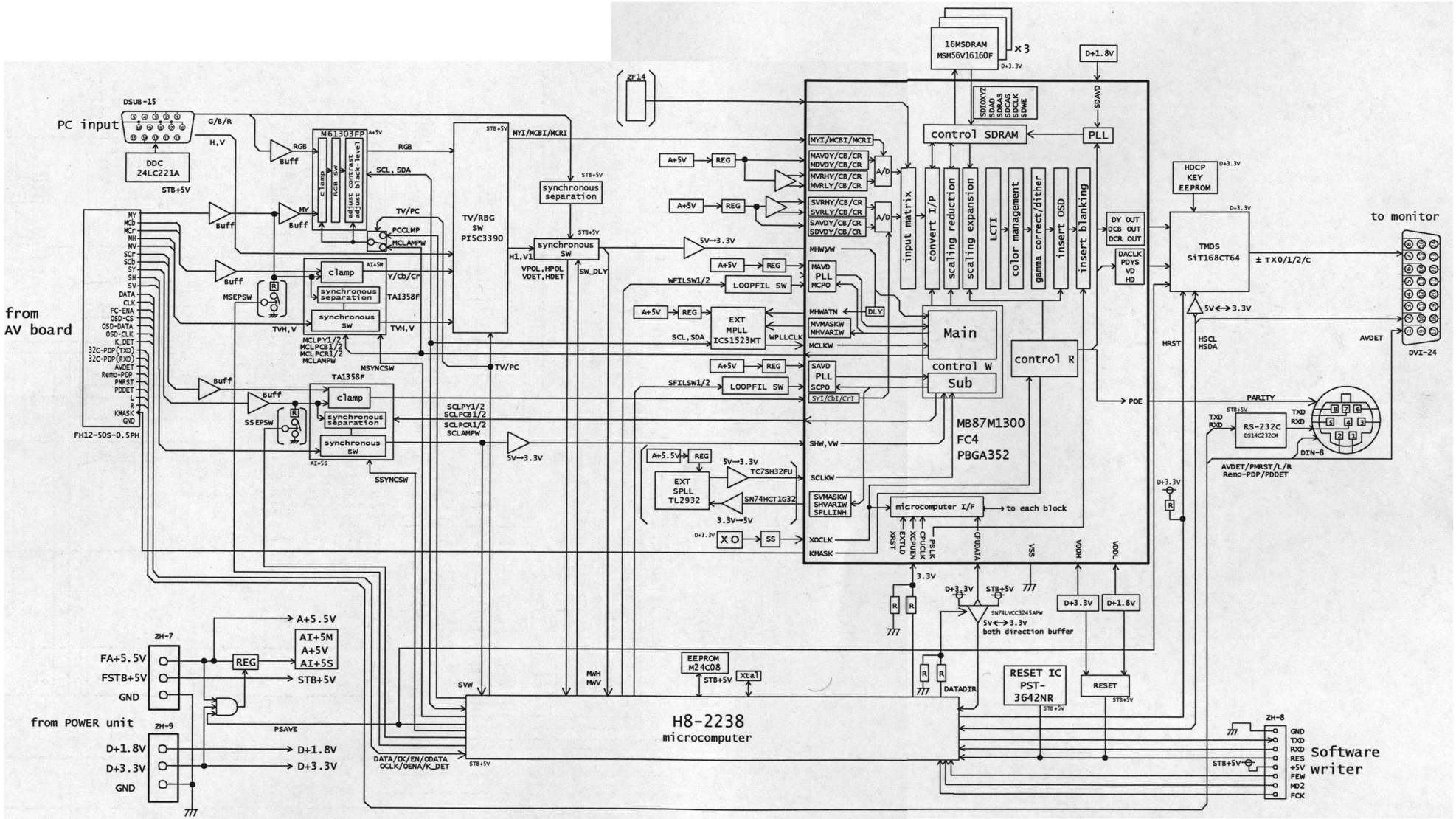
PT3-H Signal/Audio PWB



# BLOCK DIAGRAM
## AV/Control/Power for AVC3-U


AV/CONT/POWER FOR AVC
AV_PWB
CONTROL PWB
AVC POWER PWB
AV BLOCK DIAGRAM 2003.2.5
DVI
Digital Module
POWERBLOCK
FAN LOCK
FAN
STB+5V
STB+3.3V
FE+30V
+16V
+8.5V
+5V
+3.3V
+5.5
D+1.8V
D+3.3V
FSTB+5V
FA+5.5V
V+9V-1
V+9V-2
FE+9V
FE+5V
V+5V
AV+2.5V(3DYC)
DV+3.3V(3DYC)
_POWER1
IC201 TA1383FG Main
IC701 TA1383FG Sub
IX01 CXA2069Q AUDIO/VIDEO SELECTOR
IW01 _PDR4083GF Sep.&Mix Separator
IV01 TC90A49F 2Line Y/C _Separator
IX02 Input 2 Y2/VIDEO2_
IX01 Input 1 Y1 _
J402 Head-Hone (Front)
J404 Input 5 (Front)
J403 Input 4
J403 Input 3
J401 RGB/AUDIO INPUT
AUDIO OUTPUT
J201 IR-OUT
J202 IR BLASTER
S-VIDEO
VIDEO
AUDIO
IR Receiver
CONTROL SW
MENU SW
I801 M306V7FHFP TV_MPU
U101 ENG6E4106DR Main F/E
U102 ENG36614GR Sub F/E
I402 AN16884K Audio AGC
I403 NJM2904 PhotoAmp Vol.
I901 SW-REG SI-8010GM _POWER1
I932 SI-3050L5A
I933 SW-REG SI-8033JD _POWER1
I935 SW-REG SPI-8010A
I903 TK11135CS
I904 TK11125CS
I905_SI-3050L5A
I909 SI-3050KM
I908 SI-3050KM
I907 SI-3050KM
I906 SI-3050L5A
I203 3.3V-5V Buffer
I202 3.3V-5V Buffer
I201 BA4558FV
I204 BA4558FV
I205 BA4558FV
I206 BA4558FV
I207 BA4558FV
I208 BA4558FV
I209 BA4558FV
I210 BA4558FV
I211 BA4558FV
I212 BA4558FV
I213 BA4558FV
I214 BA4558FV
I215 BA4558FV
I216 BA4558FV
I217 BA4558FV
I218 BA4558FV
I219 BA4558FV
I220 BA4558FV
I221 BA4558FV
I222 BA4558FV
I223 BA4558FV

# BLOCK DIAGRAM
## FC4 Unit

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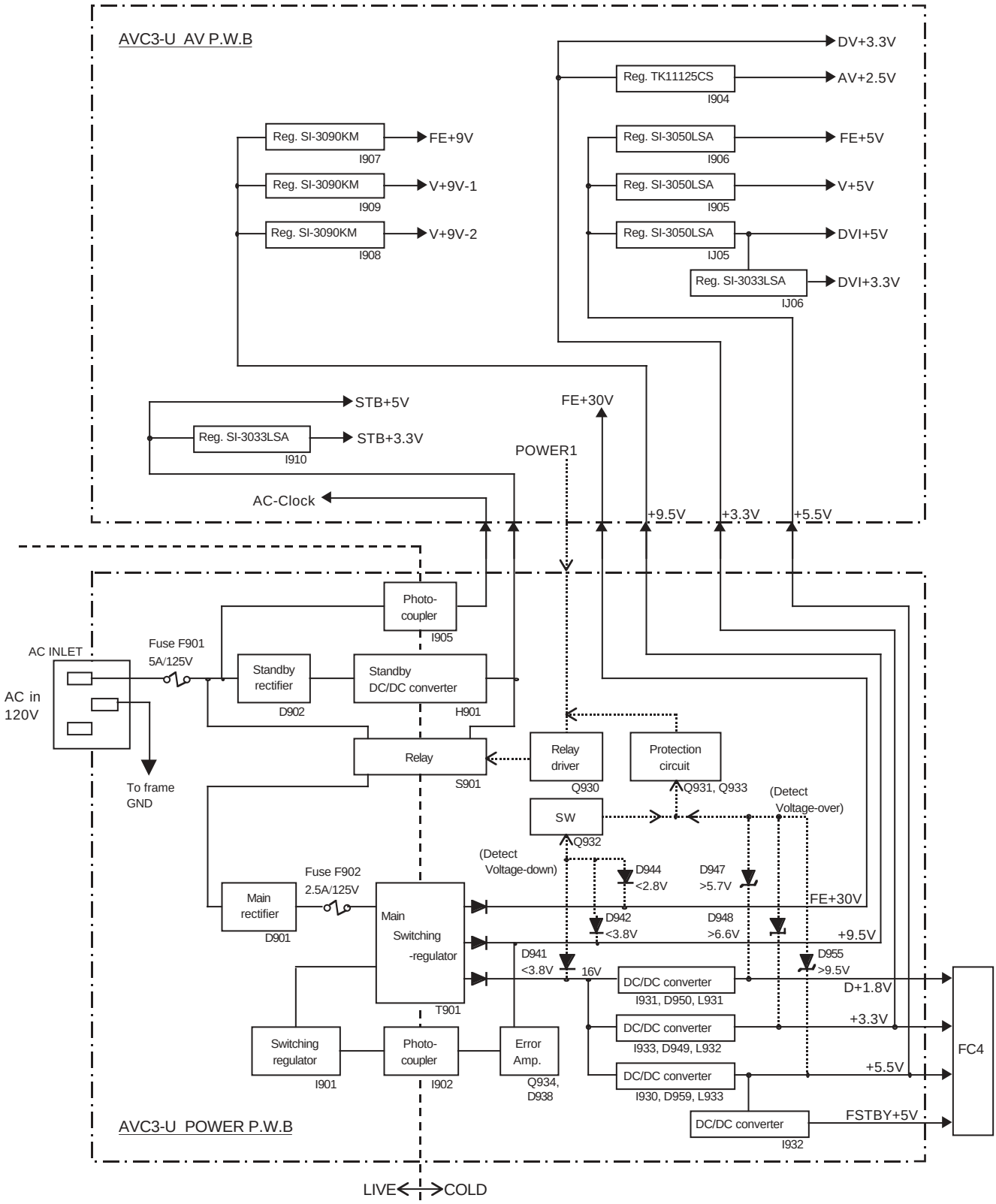
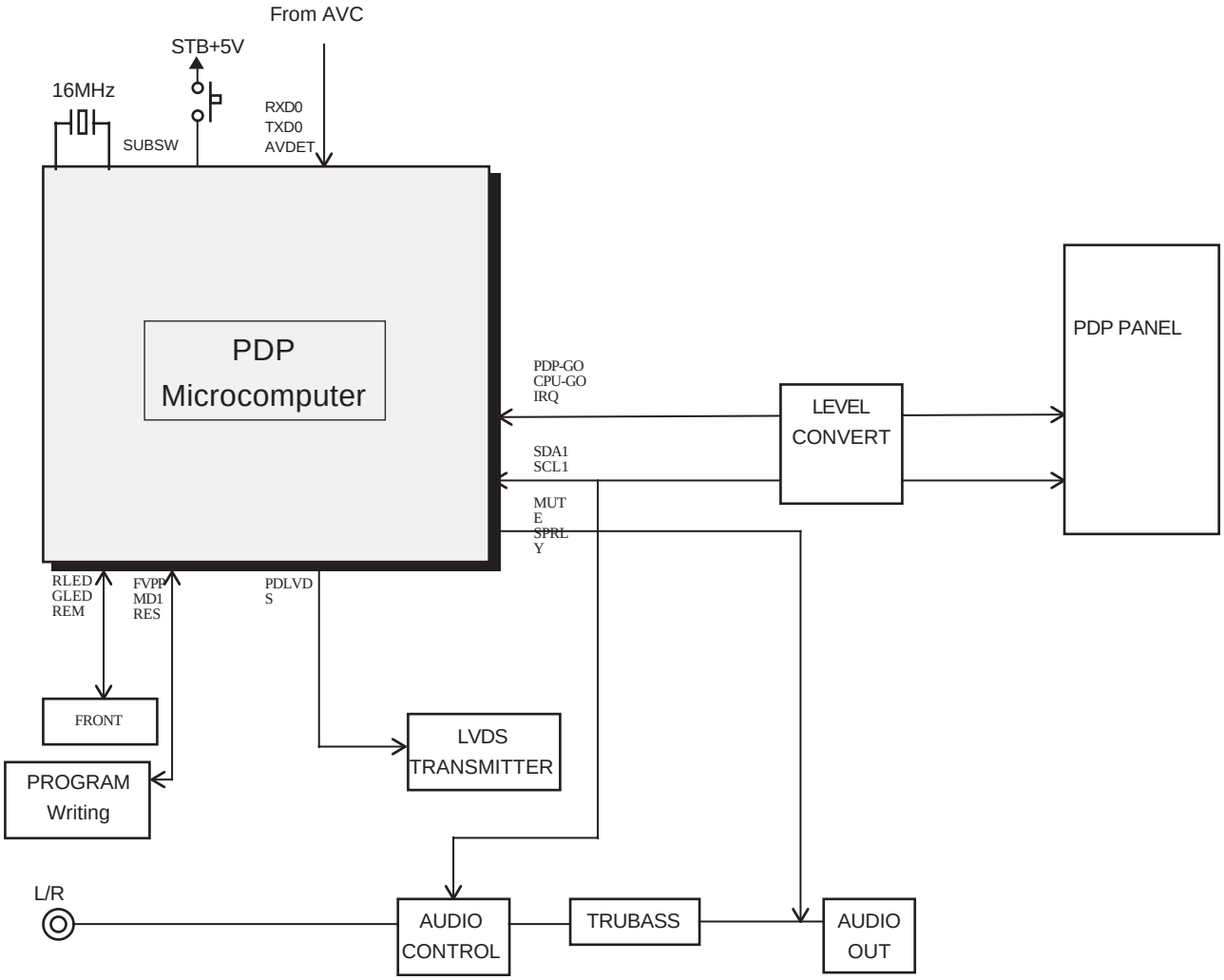
# PROTECTION CIRCUIT BLOCK DIAGRAM

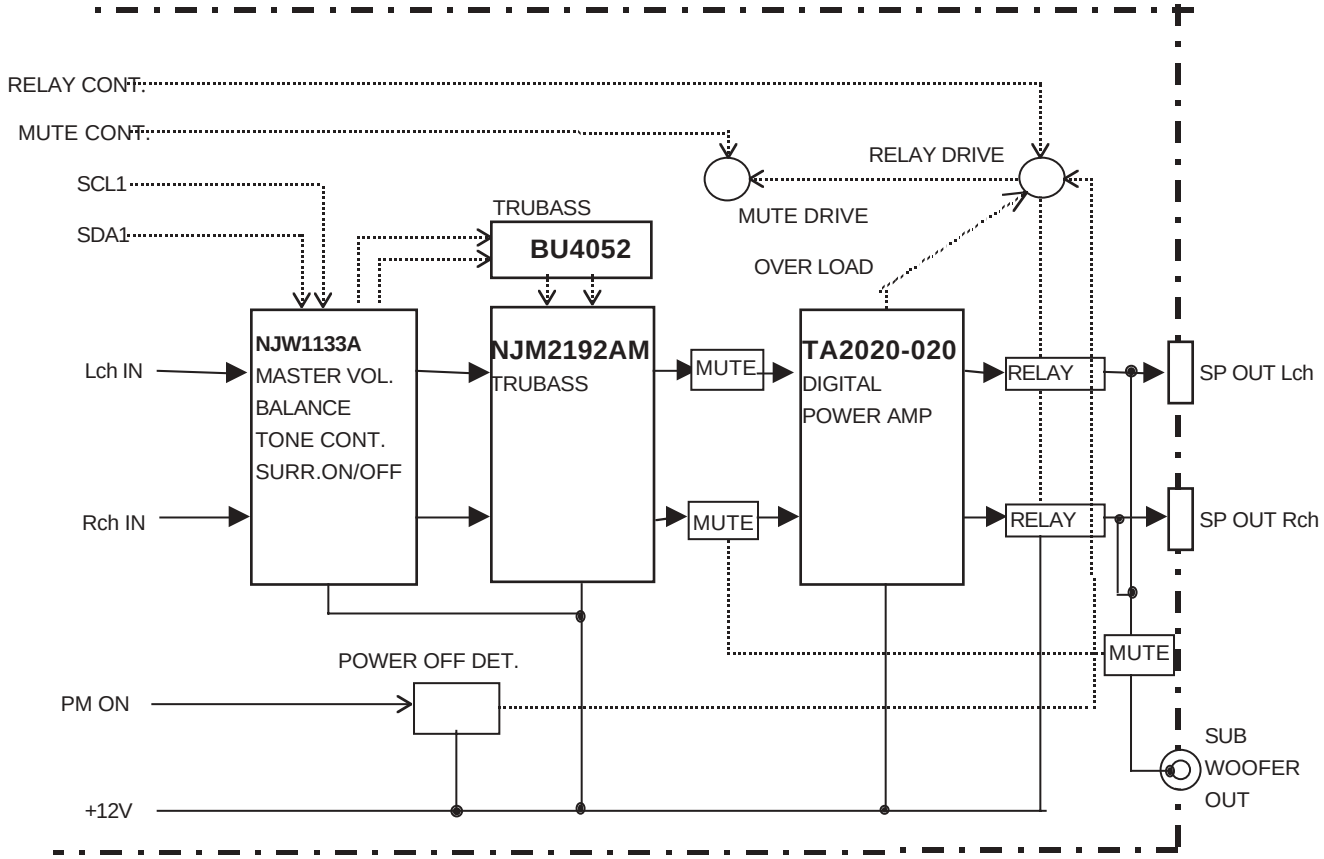


**MPU CONTROL BLOCK DIAGRAM**
**Plasma Monitor 50HDT50M/50HDT55M**

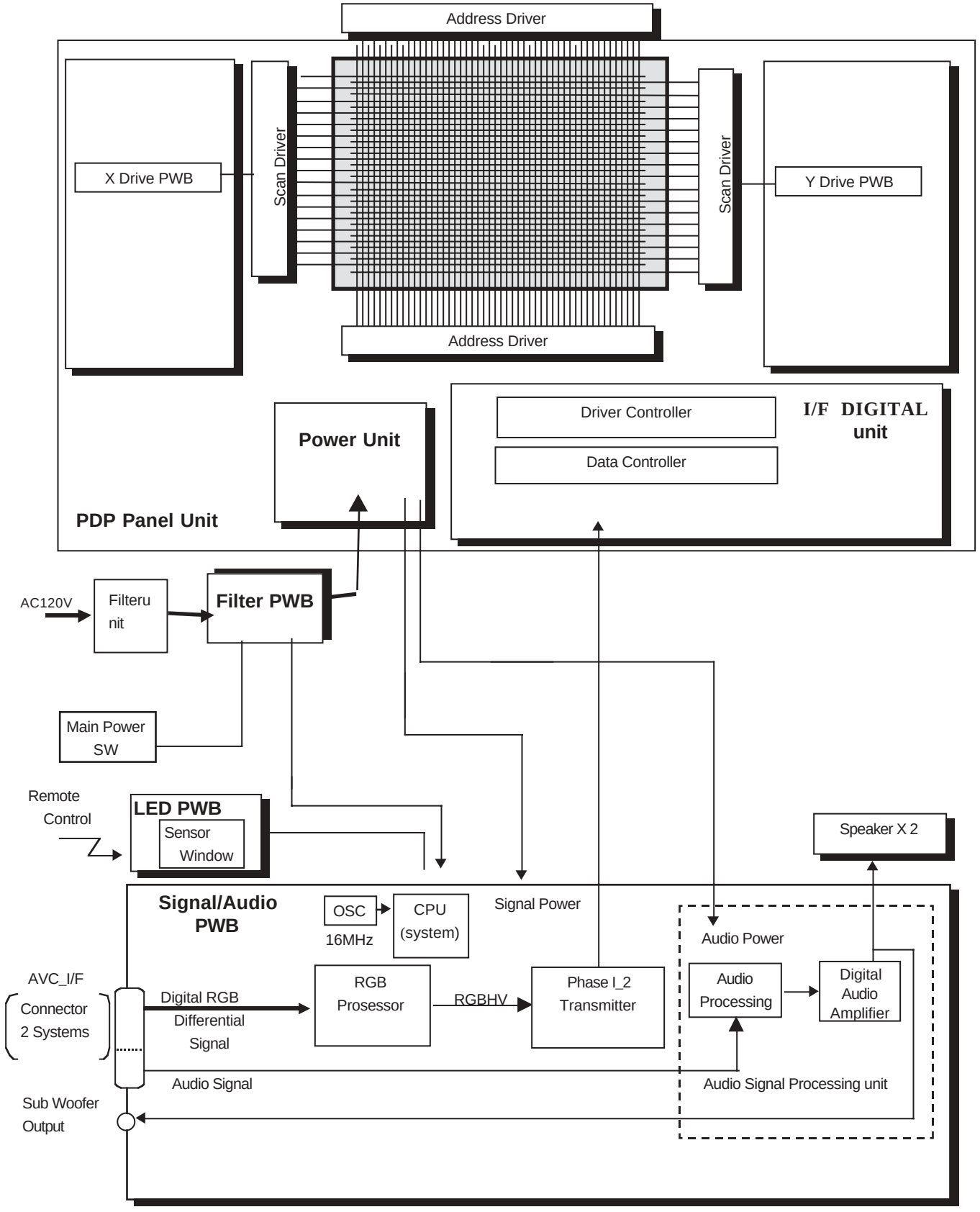


**AUDIIO CIRCUIT BLOCK DIAGRAM**
**Plasma Monitor 50HDT50M/50HDT55M**

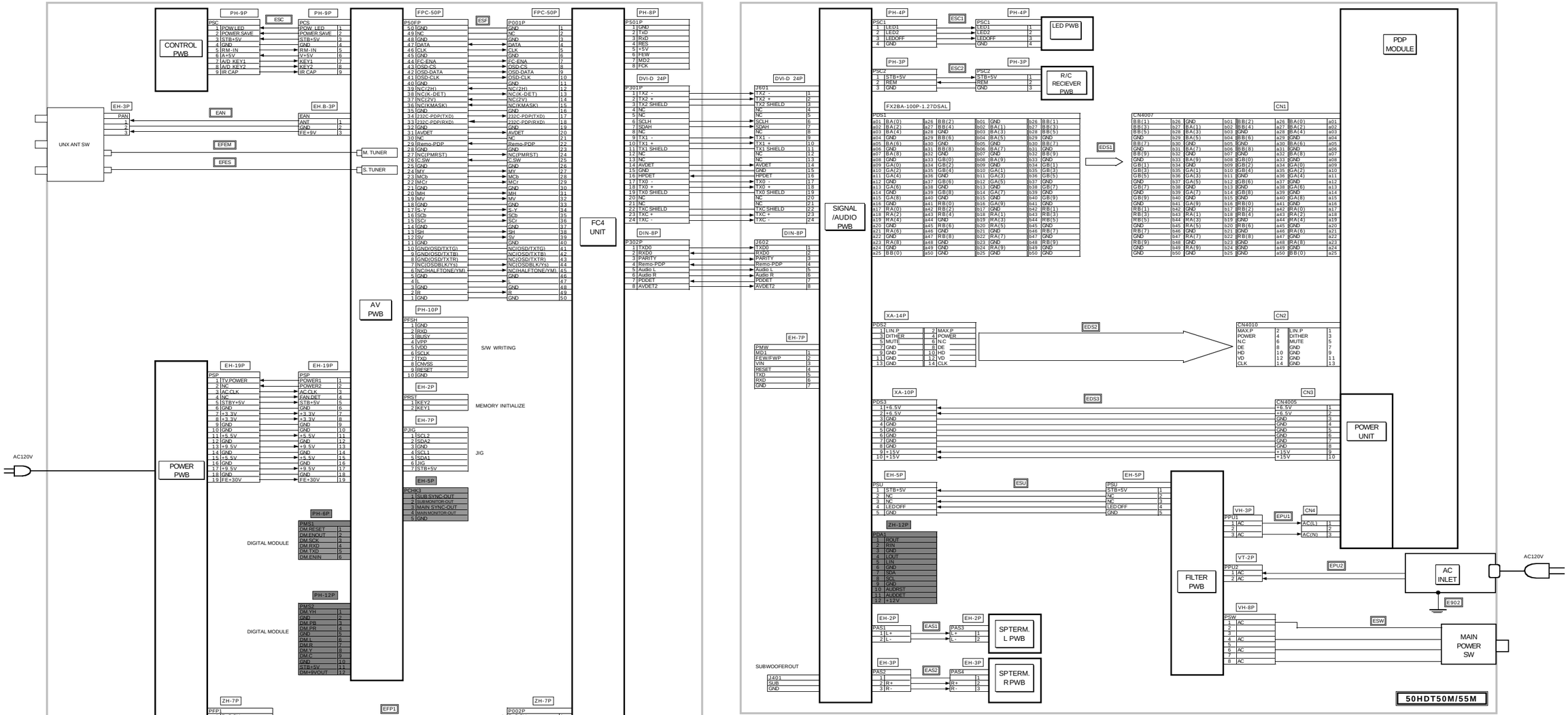
Audio Circuit Block Diagram



**BLOCK DIAGRAM APPLICATION**
**Plasma Monitor 50HDT50M/50HDT55M**



# CONNECTION DIAGRAM

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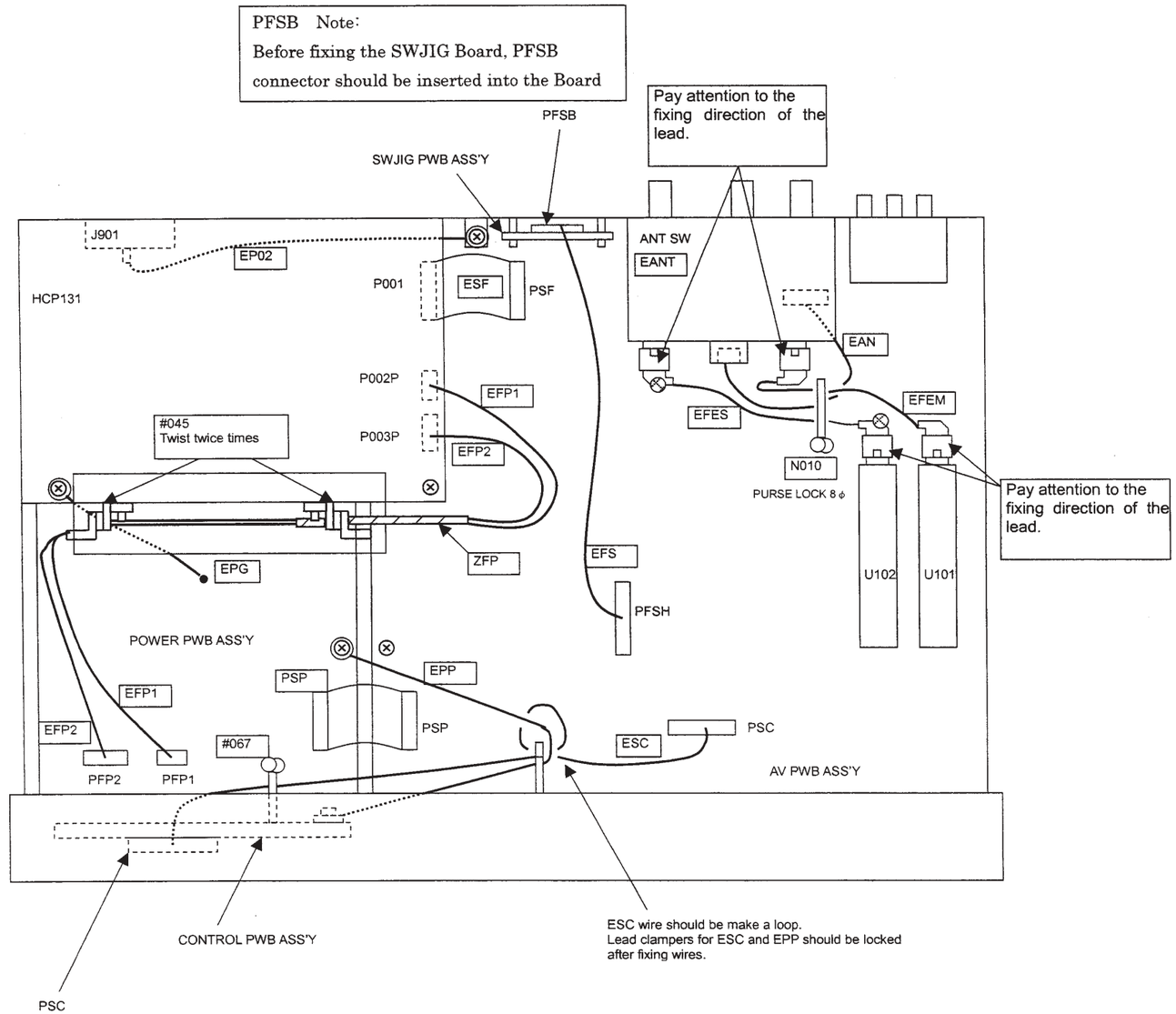
# AVC3-U CHASSIS WIRING DRAWING

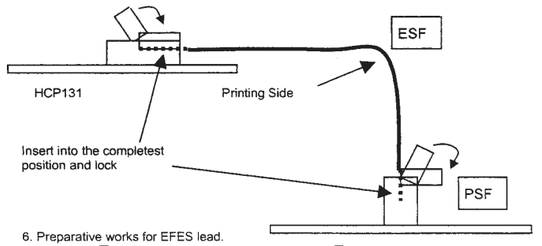



**SPECIFICATION**

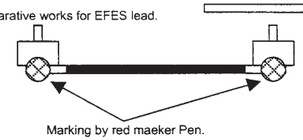
1. This Drawing shows the wire dressing and connectors connection of AVC3-U Final Assy.
2. Connectors with wire should be inserted into Plug Pin Posts as shoen on the table below.

| Connector Wire | | Plug Pin 1 | | Plug Pin 2 | |
|---|---|---|---|---|---|
| Name | Assy List | Board | Name | Board | Name |
| ESC | FINAL ASSY | Control Board | PSC | AV Board | PSC |
| EFP1 | FINAL ASSY | Power Board | PFP1 | HCP131 | P002P |
| EFP2 | FINAL ASSY | Power Board | PFP2 | HCP131 | P003P |
| ESF | FINAL ASSY | AV Board | PSF | HCP131 | P001 |
| PSP | POWER ASSY | AV Board | PSP | – | – |
| EFEM | FINAL ASSY | ANT SW | EANT | AV Board | U101 |
| EFES | FINAL ASSY | ANT SW | EANT | AV Board | U102 |
| EAN | AV/CONT ASSY | ANT SW | EANT | AV Board | EAN |
| EFS | FINAL ASSY | SWJIG Board | PFSB | AV Board | PFSH |
| EPP | FINAL ASSY | Power Board | (Screw) | Front Panel | (Screw) |
| EPG | POWER ASSY | Power Board | EPG | HCP131 | (Screw) |
| EP02 | POWER ASSY | Power Board | J901 | Rear Panel | (Screw) |

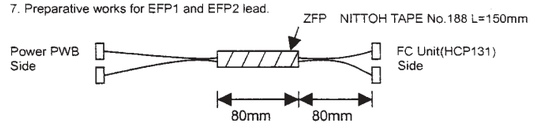
3. Into Plug Pin Post with Lock function, connector housing should be inserted completely until it can be locked.
4. Into Plug Pin Post without Lock function, connector housing should be inserted most completely.
5. Flexible Flat Cable ESF should be fixed as shown on the drawing below.




6. Preparative works for EFES lead.

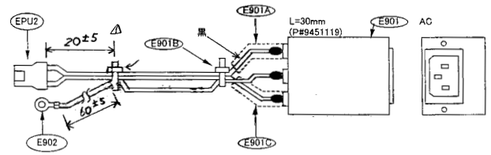


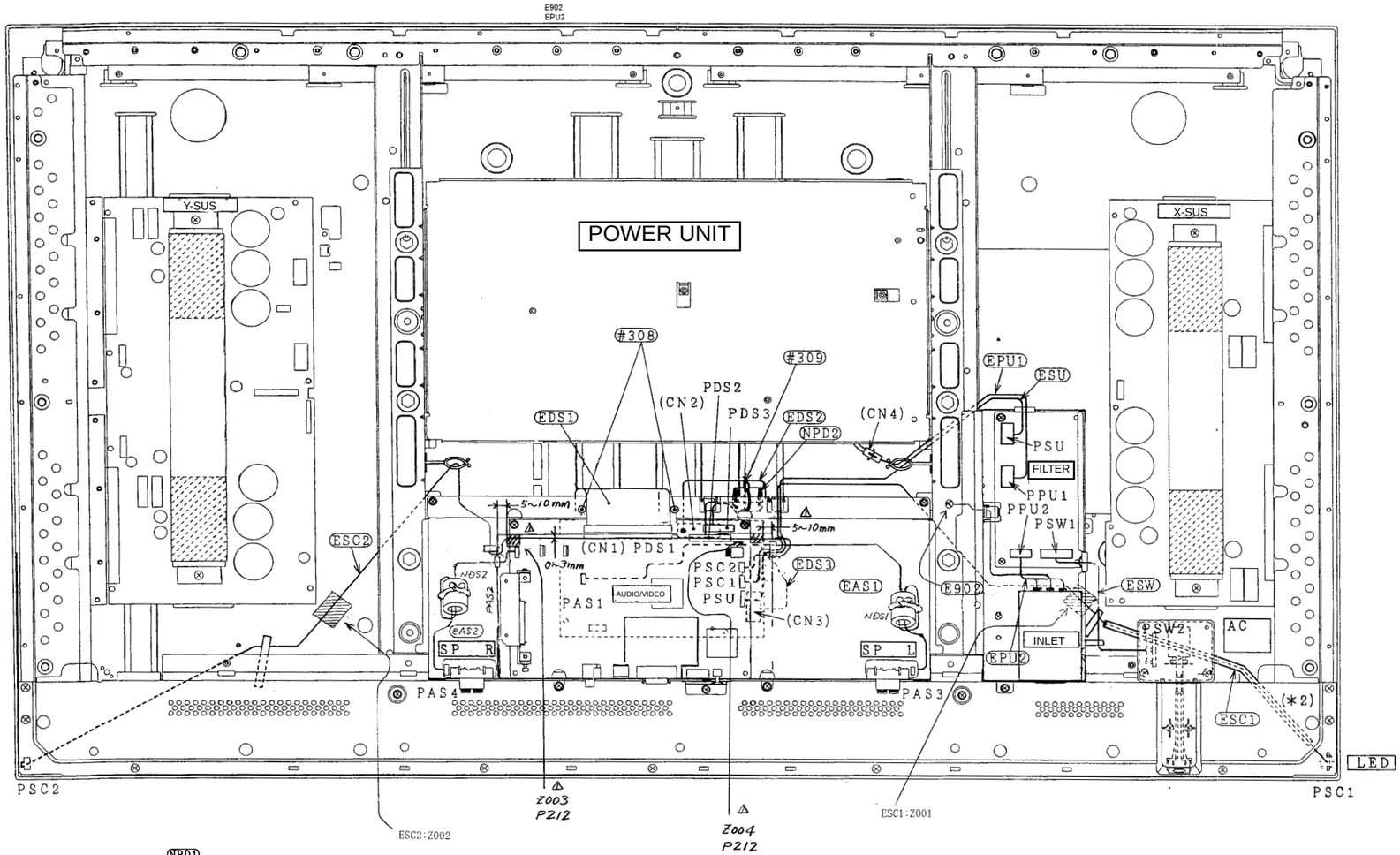

7. Preparative works for EFP1 and EFP2 lead.

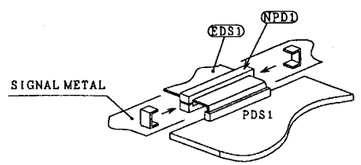



8. This drawing applies to ECN#20.

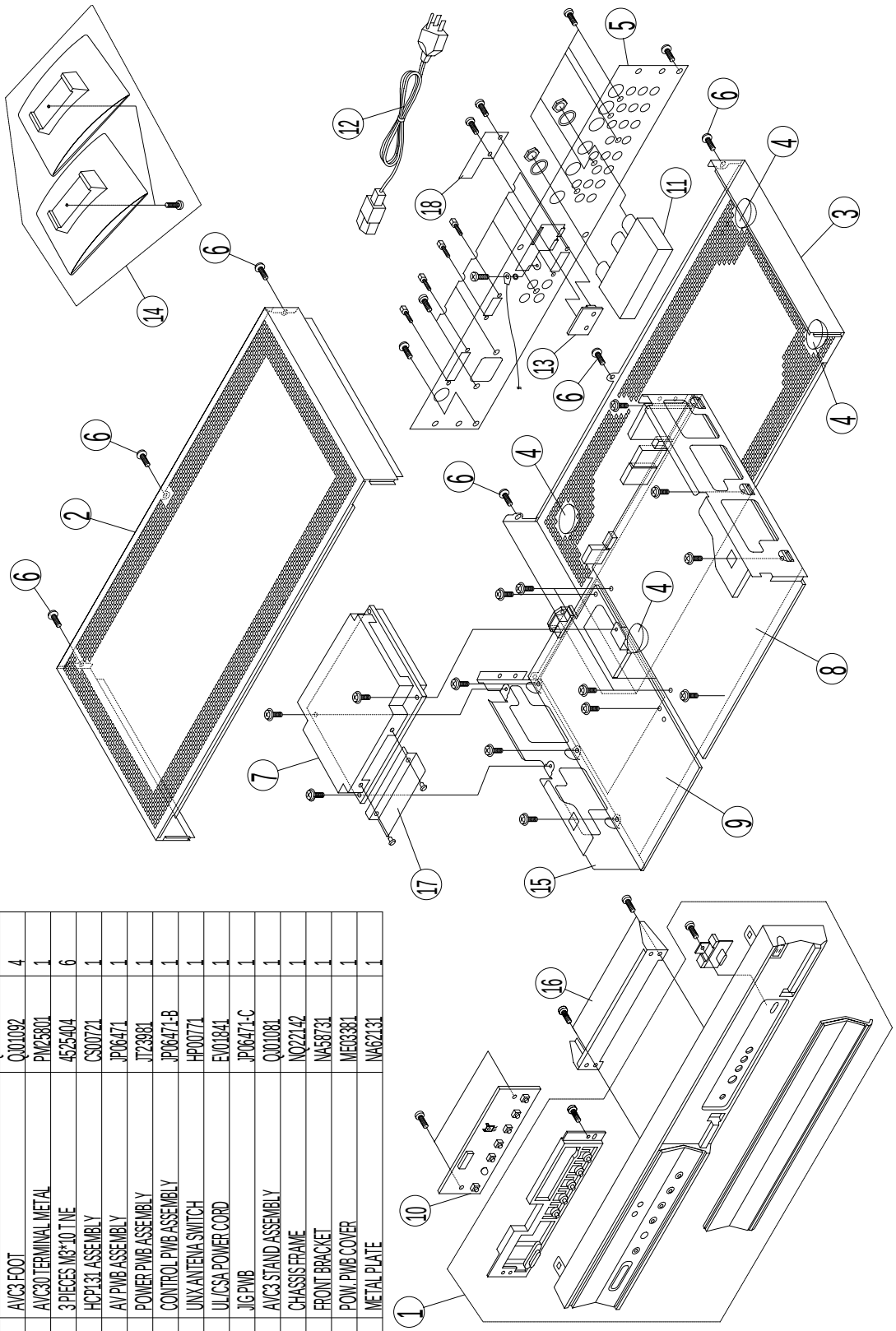
# PT3-H CHASSIS WIRING DRAWING



# EXPLODED VIEW
# AVC51



AVC50/51 EXPLODED VIEW PARTS LIST

| ITEM | DESCRIPTION | PART NO. | QTY. |
|---|---|---|---|
| 1 | FRONT PANEL ASSEMBLY | PH30943 | 1 |
| 2 | TOP CASE AVC3 | QA02642 | 1 |
| 3 | AVC3 BOTTOM CASE | QA02612 | 1 |
| 4 | AVC3 FOOT | QJ01092 | 4 |
| 5 | AVC30 TERMINAL METAL | PM25801 | 1 |
| 6 | 3 PIECES M3*10 T NE | 4525404 | 6 |
| 7 | HCP131 ASSEMBLY | CS30721 | 1 |
| 8 | AV PWB ASSEMBLY | JP06471 | 1 |
| 9 | POWER PWB ASSEMBLY | JT23981 | 1 |
| 10 | CONTROL PWB ASSEMBLY | JP06471-B | 1 |
| 11 | UNX ANTENA SWITCH | HP00771 | 1 |
| 12 | UL/CSA POWER CORD | EV01841 | 1 |
| 13 | JIG PWB | JP06471-C | 1 |
| 14 | AVC3 STAND ASSEMBLY | QJ01081 | 1 |
| 15 | CHASSIS FRAME | NQ22142 | 1 |
| 16 | FRONT BRACKET | NA58731 | 1 |
| 17 | POW. PWB COVER | ME03381 | 1 |
| 18 | METAL PLATE | NA62131 | 1 |



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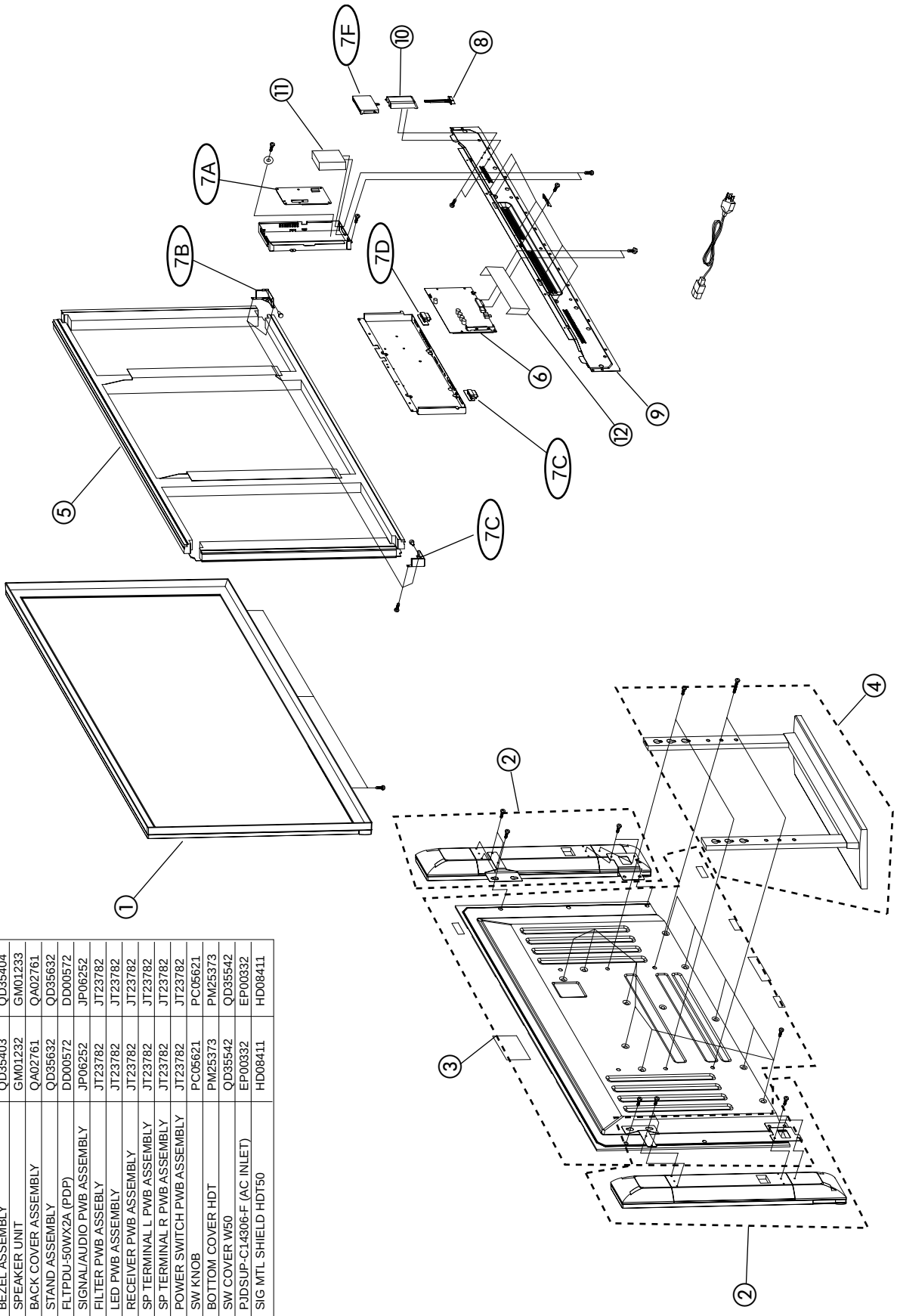
# EXPLODED VIEW
## Plasma Monitor 50HDT50M/50HDT55M




| ITEM | DESCRIPTION | 50HDT50M | 50HDT55M |
|---|---|---|---|
| 1 | BEZEL ASSEMBLY | QD35403 | QD35404 |
| 2 | SPEAKER UNIT | GM01232 | GM01233 |
| 3 | BACK COVER ASSEMBLY | QA02761 | QA02761 |
| 4 | STAND ASSEMBLY | QD35632 | QD35632 |
| 5 | FLTPDU-50WX2A (PDP) | DD00572 | DD00572 |
| 6 | SIGNAL/AUDIO PWB ASSEMBLY | JP06252 | JP06252 |
| 7A | FILTER PWB ASSEBLY | JT23782 | JT23782 |
| 7B | LED PWB ASSEMBLY | JT23782 | JT23782 |
| 7C | RECEIVER PWB ASSEMBLY | JT23782 | JT23782 |
| 7D | SP TERMINAL L PWB ASSEMBLY | JT23782 | JT23782 |
| 7E | SP TERMINAL R PWB ASSEMBLY | JT23782 | JT23782 |
| 7F | POWER SWITCH PWB ASSEMBLY | JT23782 | JT23782 |
| 8 | SW KNOB | PC05621 | PC05621 |
| 9 | BOTTOM COVER HDT | PM25373 | PM25373 |
| 10 | SW COVER W50 | QD35542 | QD35542 |
| 11 | PJDSUP-C14306-F (AC INLET) | EP00332 | EP00332 |
| 12 | SIG MTL SHIELD HDT50 | HD08411 | HD08411 |

# REPLACEMENT PARTS LIST

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

## ABBREVIATIONS

**Capacitors:**
- AL: Aluminum Electrolytic
- CD: Ceramic Disc
- EL: Electrolitic
- PF: Polyester Film
- PP: Polypropylene
- PL: Plastic
- TA: Tantalum
- PR: Paper
- TM: Trimmer
- MC: Mylar

**Resistors:**
- CF: Carbon Film
- CC: Carbon Composition
- MF: Metal Oxide
- VR: Variable Resistor
- WW: Wire Wound
- FR: Fuse Resistor
- MG: Metal Grazed

**Semiconductors:**
- TR: Transistor
- DI: Diode
- ZD: Zener Diode
- VA: Varistor
- TH: Termistor
- IC: Integrated Circuit

| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| | | **AVC51 AV/CONTROL PSA ASSY (P# JP06471)** | C109 | AA01802R | CCC103K50-B-16CT MCH18 |
| | | **CAPACITORS** | C110 | 0800352R | CAP.-ELECTRO.470UF 10V |
| C001 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C111 | AA01802R | CCC103K50-B-16CT MCH18 |
| C002 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C114 | AA01802R | CCC103K50-B-16CT MCH18 |
| C003 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | C116 | AA01802R | CCC103K50-B-16CT MCH18 |
| C004 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V | C117 | 0800352R | CAP.-ELECTRO.470UF 10V |
| C005 | 0893131R | CAP 1608CHIP 220PFJCH 50V TAPE | C118 | AA01802R | CCC103K50-B-16CT MCH18 |
| C008 | 0893104R | CAP 1608CHIP 2PFCCK 50V TAPE | C119 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C009 | 0893245R | CAP 1608CHIP 15000PFKB 50V TAPE | C120 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C013 | AA01802R | CCC103K50-B-16CT MCH18 | C202 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C014 | AA01802R | CCC103K50-B-16CT MCH18 | C204 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C015 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | C205 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C016 | 0893131R | CAP 1608CHIP 220PFJCH 50V TAPE | C206 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C017 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V | C207 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C018 | 0893204R | CAP 1608CHIP 470PFKB 50V TAPE | C208 | AA01802R | CCC103K50-B-16CT MCH18 |
| C019 | 0893204R | CAP 1608CHIP 470PFKB 50V TAPE | C209 | AA01802R | CCC103K50-B-16CT MCH18 |
| C020 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C210 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C021 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C211 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C022 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | C212 | 0893205R | CAP 1608CHIP 560PFKB 50V TAPE |
| C023 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | C214 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V |
| C024 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C215 | 0893205R | CAP 1608CHIP 560PFKB 50V TAPE |
| C025 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C217 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V |
| C026 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C218 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C027 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C219 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C084 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C222 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C085 | AA01814R | CCC333K50-B-16CT | C223 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C086 | AA01814R | CCC333K50-B-16CT | C224 | 0893213R | CAP1608CHIP 2200PFKB 50V TAPE |
| C087 | AA01802R | CCC103K50-B-16CT MCH18 | C225 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C101 | 0800352R | CAP.-ELECTRO.470UF 10V | C227 | 0800318R | CAP.-ELECTRO. 47UF-M 25V |
| C102 | AA01802R | CCC103K50-B-16CT MCH18 | C228 | 0893133R | CAP 1608CHIP 330PFJCH 50V TAPE |
| C105 | AA01802R | CCC103K50-B-16CT MCH18 | C229 | AA01101R | CERAMIC CAPACITOR(1UF 10V-F) |
| C107 | AA01802R | CCC103K50-B-16CT MCH18 | C230 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C108 | 0800352R | CAP.-ELECTRO.470UF 10V | C231 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| C232 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C426 | 0800352R | CAP.-ELECTRO.470UF 10V |
| C234 | 0800318R | CAP.-ELECTRO. 47UF-M 25V | C427 | 0800344R | CAP.-ELECTRO. 330UF-M(SMG) 16V |
| C235 | 0893133R | CAP 1608CHIP 330PFJCH 50V TAPE | C428 | 0800309R | CAP.-ELECTRO 33UF-M(SMG) 25V |
| C236 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | C907 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C237 | AA01101R | CERAMIC CAPACITOR(1UF 10V-F) | C909 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C238 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C910 | AA01814R | CCC333K50-B-16CT |
| C239 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C911 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C241 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | C913 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C242 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C914 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C243 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C916 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C244 | 0893217R | CAP 1608CHIP 4700PFKB 50V TAPE | C917 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C252 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C919 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C253 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C920 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C254 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C922 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C255 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | C923 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C256 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | C925 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C257 | AA01814R | CCC333K50-B-16CT | C926 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C258 | AA01814R | CCC333K50-B-16CT | C928 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C259 | AA00931R | CAP. CERAMIC 2012 (1UF 10V) | C929 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C260 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ03 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C261 | AA01814R | CCC333K50-B-16CT | CJ04 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C262 | AA01814R | CCC333K50-B-16CT | CJ09 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C263 | AA00931R | CAP. CERAMIC 2012 (1UF 10V) | CJ10 | AA01802R | CCC103K50-B-16CT MCH18 |
| C268 | 0893217R | CAP 1608CHIP 4700PFKB 50V TAPE | CJ11 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE |
| C269 | AA01802R | CCC103K50-B-16CT MCH18 | CJ12 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE |
| C270 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ13 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE |
| C271 | AA01802R | CCC103K50-B-16CT MCH18 | CJ14 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C272 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CJ16 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C273 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CJ17 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C274 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CJ18 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C275 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ19 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C404 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ20 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C404A | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ21 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C405 | 0800317R | CAP.-ELECTRO. 47UF-M(SMG) 16V | CJ22 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C406 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CJ23 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C407 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ24 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C408 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ25 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C409 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ26 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C409A | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ27 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C410 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ28 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C410A | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ29 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C411 | 0284634R | CAP.-ELECTRO 4.7UF-SME(BP) 50V | CJ30 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C411A | 0284634R | CAP.-ELECTRO 4.7UF-SME(BP) 50V | CJ31 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C412 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ32 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C412A | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ33 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C413 | 0800288R | CAP.-ELECTRO. 4.7UF-M(SMG) 50V | CJ34 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C414 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ35 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C415 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CJ36 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C416 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ37 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C417 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ38 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C418 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ39 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C419 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ40 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C419A | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ41 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C420 | 0800352R | CAP.-ELECTRO.470UF 10V | CJ42 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C420A | 0800352R | CAP.-ELECTRO.470UF 10V | CJ43 | 0800318R | CAP.-ELECTRO. 47UF-M 25V |
| C421 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CJ44 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE |
| C422 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ45 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| C423 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CJ46 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C424 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CJ47 | AA01814R | CCC333K50-B-16CT |
| C425 | 0893232R | CAP 1608CHIP 100000PFZF25V TAPE | CJ48 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| CJ49 | AA01814R | CCC333K50-B-16CT | CW21 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CJ50 | 0800358R | CAP.-ELECTRO. 1000UF-M 6.3V | CW22 | AA01814R | CCC333K50-B-16CT |
| CJ51 | AA01814R | CCC333K50-B-16CT | CW23 | AA01814R | CCC333K50-B-16CT |
| CM01 | AD00428R | CEC101M10-EWCT | CW24 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CM02 | AA01802R | CCC103K50-B-16CT MCH18 | CW26 | AA01802R | CCC103K50-B-16CT MCH18 |
| CM25 | AA01802R | CCC103K50-B-16CT MCH18 | CW27 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CM26 | AD00428R | CEC101M10-EWCT | CW28 | 0893119R | CAP 1608CHIP 33PFJCH 50V TAPE |
| CM27 | 0893131R | CAP 1608CHIP 220PFJCH 50V TAPE | CW29 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CM28 | AA01814R | CCC333K50-B-16CT | CW30 | 0893111R | CAP 1608CHIP 8PFCCH 50V TAPE |
| CM29 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | CW31 | AA01802R | CCC103K50-B-16CT MCH18 |
| CM30 | AA00422R | CERAMIC CAPACITOR(10UF 16V) | CW32 | AA01814R | CCC333K50-B-16CT |
| CM31 | AA00358R | CAP 3216 CHIP 1.0UFKB 16V TAPE | CW33 | 0893119R | CAP 1608CHIP 33PFJCH 50V TAPE |
| CM32 | AD00439R | CEC470M16-EWCT | CW34 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CRX76 | 0893245R | CAP 1608CHIP 15000PFKB 50V TAPE | CW39 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CV01 | AA01802R | CCC103K50-B-16CT MCH18 | CW40 | AA00964R | CERAMIC CAPACITOR(2.2UF 6.3V) |
| CV02 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CW41 | AA01814R | CCC333K50-B-16CT |
| CV03 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CW42 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV05 | 0893111R | CAP 1608CHIP 8PFCCH 50V TAPE | CW43 | AA01814R | CCC333K50-B-16CT |
| CV06 | AA01802R | CCC103K50-B-16CT MCH18 | CW44 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV08 | AA01802R | CCC103K50-B-16CT MCH18 | CW45 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE |
| CV09 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CW48 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV10 | AA01802R | CCC103K50-B-16CT MCH18 | CW49 | AA01814R | CCC333K50-B-16CT |
| CV11 | AA01802R | CCC103K50-B-16CT MCH18 | CW50 | 0893115R | CAP 1608CHIP 15PFJCH 50V TAPE |
| CV12 | AA01802R | CCC103K50-B-16CT MCH18 | CW51 | 0893123R | CAP 1608CHIP 56PFJCH 50V TAPE |
| CV13 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CW52 | 0893115R | CAP 1608CHIP 15PFJCH 50V TAPE |
| CV14 | AA01802R | CCC103K50-B-16CT MCH18 | CW53 | AA01814R | CCC333K50-B-16CT |
| CV15 | AA01802R | CCC103K50-B-16CT MCH18 | CW54 | AA01814R | CCC333K50-B-16CT |
| CV16 | AA01802R | CCC103K50-B-16CT MCH18 | CW55 | AA01814R | CCC333K50-B-16CT |
| CV17 | AA01814R | CCC333K50-B-16CT | CW56 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV18 | 0800352R | CAP.-ELECTRO.470UF 10V | CW57 | AA01814R | CCC333K50-B-16CT |
| CV19 | 0893129R | CAP 1608CHIP 180PFJCH 50V TAPE | CW58 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV20 | AA01802R | CCC103K50-B-16CT MCH18 | CW59 | AA01814R | CCC333K50-B-16CT |
| CV21 | 0893127R | CAP 1608CHIP 120PFJCH 50V TAPE | CW60 | AA01814R | CCC333K50-B-16CT |
| CV22 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CW61 | AA01802R | CCC103K50-B-16CT MCH18 |
| CV23 | 0800318R | CAP.-ELECTRO. 47UF-M 25V | CW62 | AA01814R | CCC333K50-B-16CT |
| CV24 | 0893118R | CAP 1608CHIP 27PFJCH 50V TAPE | CW63 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CV25 | 0893115R | CAP 1608CHIP 15PFJCH 50V TAPE | CW64 | AA01814R | CCC333K50-B-16CT |
| CV26 | 0893111R | CAP 1608CHIP 8PFCCH 50V TAPE | CW65 | AA01814R | CCC333K50-B-16CT |
| CV27 | AA01814R | CCC333K50-B-16CT | CW66 | AA01814R | CCC333K50-B-16CT |
| CV28 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CX01 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW01 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CX02 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW02 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CX03 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW03 | 0893115R | CAP 1608CHIP 15PFJCH 50V TAPE | CX04 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW04 | 0893123R | CAP 1608CHIP 56PFJCH 50V TAPE | CX05 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CW05 | 0893115R | CAP 1608CHIP 15PFJCH 50V TAPE | CX06 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW06 | AA00362R | CAP.CHIP-CERAMIC 2.2UF 16V TAPE | CX07 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW07 | AA00362R | CAP.CHIP-CERAMIC 2.2UF 16V TAPE | CX08 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CW08 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CX09 | AA01814R | CCC333K50-B-16CT |
| CW09 | AA01802R | CCC103K50-B-16CT MCH18 | CX10 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CW10 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CX11 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW11 | AA01802R | CCC103K50-B-16CT MCH18 | CX12 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) |
| CW12 | AA00358R | CAP 3216 CHIP 1.0UFKB 16V TAPE | CX13 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CW13 | 0893204R | CAP 1608CHIP 470PFKB 50V TAPE | CX14 | AA01814R | CCC333K50-B-16CT |
| CW14 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CX15 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CW15 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CX16 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CW16 | AA01814R | CCC333K50-B-16CT | CX17 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CW17 | AA01814R | CCC333K50-B-16CT | CX18 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| CW18 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CX19 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CW19 | AA01814R | CCC333K50-B-16CT | CX20 | AA01814R | CCC333K50-B-16CT |
| CW20 | AA01814R | CCC333K50-B-16CT | CX21 | 0800352R | CAP.-ELECTRO.470UF 10V |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| CX22 | 0800352R | CAP.-ELECTRO.470UF 10V | CXD4 | AA01814R | CCC333K50-B-16CT |
| CX23 | AA01802R | CCC103K50-B-16CT MCH18 | CXD5 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CX28 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CXE4 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CX29 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CXE5 | AA01814R | CCC333K50-B-16CT |
| CX30 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CXE6 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| CX31 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ01 | 0800353R | CAP.-ELECTRO.470UF-M 16V |
| CX32 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ02 | AA01814R | CCC333K50-B-16CT |
| CX33 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ03 | AA01814R | CCC333K50-B-16CT |
| CX36 | AA01814R | CCC333K50-B-16CT | CZ04 | AA01814R | CCC333K50-B-16CT |
| CX37 | AA01814R | CCC333K50-B-16CT | CZ05 | AA01814R | CCC333K50-B-16CT |
| CX38 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ06 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V |
| CX39 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CZ07 | AA01802R | CCC103K50-B-16CT MCH18 |
| CX40 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V | CZ10 | AA01814R | CCC333K50-B-16CT |
| CX42 | AA01814R | CCC333K50-B-16CT | CZ11 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CX43 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ12 | AA01814R | CCC333K50-B-16CT |
| CX44 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ13 | AA01814R | CCC333K50-B-16CT |
| CX45 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ14 | AA01814R | CCC333K50-B-16CT |
| CX46 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ15 | AA01802R | CCC103K50-B-16CT MCH18 |
| CX49 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ16 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CX52 | AA01814R | CCC333K50-B-16CT | CZ17 | AA01814R | CCC333K50-B-16CT |
| CX53 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CZ18 | 0800282R | CAP.-ELECTORO. 2.2UF-M(SMG) 50V |
| CX54 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ19 | 0893213R | CAP1608CHIP 2200PFKB 50V TAPE |
| CX55 | AA01814R | CCC333K50-B-16CT | CZ20 | 0893114R | CAP 1608CHIP 12PFJCH 50V TAPE |
| CX56 | AA01814R | CCC333K50-B-16CT | CZ21 | AA01814R | CCC333K50-B-16CT |
| CX83 | 0893131R | CAP 1608CHIP 220PFJCH 50V TAPE | CZ22 | 0800353R | CAP.-ELECTRO.470UF-M 16V |
| CX84 | 0893131R | CAP 1608CHIP 220PFJCH 50V TAPE | CZ23 | AA01814R | CCC333K50-B-16CT |
| CX85 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CZ24 | AA01814R | CCC333K50-B-16CT |
| CX86 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CZ25 | AA01814R | CCC333K50-B-16CT |
| CX87 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CZ26 | AA01814R | CCC333K50-B-16CT |
| CX88 | 0893208R | CAP 1608CHIP 1000PFKB 50V TAPE | CZ27 | 0800279R | CAP.-ELECTORO. 1.0UF-M(SMG) 50V |
| CX89 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ28 | AA01802R | CCC103K50-B-16CT MCH18 |
| CX90 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ31 | AA01814R | CCC333K50-B-16CT |
| CX91 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ32 | AA01814R | CCC333K50-B-16CT |
| CX92 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ33 | AA01814R | CCC333K50-B-16CT |
| CX93 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ34 | AA01802R | CCC103K50-B-16CT MCH18 |
| CX94 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ35 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CX95 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ36 | 0800282R | CAP.-ELECTORO. 2.2UF-M(SMG) 50V |
| CX96 | AA00951R | CERAMIC CAPACITOR(1.0UF 16V) | CZ37 | 0893213R | CAP1608CHIP 2200PFKB 50V TAPE |
| CX99 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | CZ38 | 0893114R | CAP 1608CHIP 12PFJCH 50V TAPE |
| CXA1 | AA01814R | CCC333K50-B-16CT | CZ39 | AA01814R | CCC333K50-B-16CT |
| CXA2 | AA01814R | CCC333K50-B-16CT | CZ40 | AA01814R | CCC333K50-B-16CT |
| CXA3 | AA01814R | CCC333K50-B-16CT | CZ41 | AA01802R | CCC103K50-B-16CT MCH18 |
| CXA4 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ42 | 0893123R | CAP 1608CHIP 56PFJCH 50V TAPE |
| CXA5 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ43 | AA01814R | CCC333K50-B-16CT |
| CXA6 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ44 | AA01802R | CCC103K50-B-16CT MCH18 |
| CXA7 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ45 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |
| CXA8 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | CZ46 | AA01814R | CCC333K50-B-16CT |
| CXB1 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ47 | AA01802R | CCC103K50-B-16CT MCH18 |
| CXB2 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ48 | 0893123R | CAP 1608CHIP 56PFJCH 50V TAPE |
| CXB3 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ49 | AA01814R | CCC333K50-B-16CT |
| CXB4 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ50 | AA01802R | CCC103K50-B-16CT MCH18 |
| CXB5 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ60 | AA01814R | CCC333K50-B-16CT |
| CXB6 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ62 | AA01814R | CCC333K50-B-16CT |
| CXB7 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ63 | 0893114R | CAP 1608CHIP 12PFJCH 50V TAPE |
| CXB8 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ64 | AA01814R | CCC333K50-B-16CT |
| CXB9 | AA01814R | CCC333K50-B-16CT | CZ65 | AA01814R | CCC333K50-B-16CT |
| CXC1 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ66 | AA01814R | CCC333K50-B-16CT |
| CXC2 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ67 | AA01814R | CCC333K50-B-16CT |
| CXC3 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ68 | AA01814R | CCC333K50-B-16CT |
| CXC4 | AA00966R | CERAMIC CAPACITOR(4.7UF 6.3V) | CZ69 | 0800326R | CAP.-ELECTRO. 100UF-M 16V |

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|---|---|---|---|---|---|
| CZ70 | AA01814R | CCC333K50-B-16CT | D403 | 2331771M | ZENER HZ-3A1 TAPE |
| CZ71 | AA01814R | CCC333K50-B-16CT | D403A | 2331771M | ZENER HZ-3A1 TAPE |
| CZ72 | AA01814R | CCC333K50-B-16CT | D404 | 2348112M | ZENER DIODE MTZ-J5.6B |
| CZ73 | AA01814R | CCC333K50-B-16CT | D405 | CH02021M | DIODE 1SS133 T-72 |
| CZ77 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | D406 | CH02021M | DIODE 1SS133 T-72 |
| CZ78 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | D407 | 2344041M | DIODE1SS254TA/1SS270TA |
| CZ79 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | D408 | CH02021M | DIODE 1SS133 T-72 |
| CZ80 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ01 | 2331849M | ZENER HZ12C3 (TA) SI 500MW |
| CZ81 | 0893213R | CAP1608CHIP 2200PFKB 50V TAPE | DJ02 | 2331849M | ZENER HZ12C3 (TA) SI 500MW |
| CZ82 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ03 | 2331849M | ZENER HZ12C3 (TA) SI 500MW |
| CZ83 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ04 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ84 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ05 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ85 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ06 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ86 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ07 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ87 | AA01814R | CCC333K50-B-16CT | DJ08 | 2344041M | DIODE1SS254TA/1SS270TA |
| CZ88 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | DJ09 | 2331809M | ZENER DIODE HZ-6 TAPE (C3) SI 500MW |
| CZ89 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DJ10 | 2344041M | DIODE1SS254TA/1SS270TA |
| CZ90 | 0893118R | CAP 1608CHIP 27PFJCH 50V TAPE | DJ11 | 2344041M | DIODE1SS254TA/1SS270TA |
| CZ91 | 0893125R | CAP 1608CHIP 82PFJCH 50V TAPE | DJ12 | 2344041M | DIODE1SS254TA/1SS270TA |
| CZ92 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | DJ13 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ93 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | DJ14 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ94 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | DJ15 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ95 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | DJ16 | CC10721R | DIODE CHIP DA204K-TPTX |
| CZ96 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | DM01 | CH02031R | DIODE SPR-505MVW |
| CZ97 | AA01814R | CCC333K50-B-16CT | DM02 | CH02721 | PHOTO DIODE PNZ313B |
| CZ98 | 0893126R | CAP 1608CHIP 100PFJCH 50V TAPE | DM14 | 2344041M | DIODEISS254TA/ISS270TA |
| CZ99 | 0893213R | CAP1608CHIP 2200PFKB 50V TAPE | DX01 | 2331771M | ZENER HZ-3A1 TAPE |
| CZA1 | AA01814R | CCC333K50-B-16CT | DX02 | 2331771M | ZENER HZ-3A1 TAPE |
| CZA2 | AA01814R | CCC333K50-B-16CT | DX03 | CH02021M | DIODE 1SS133 T-72 |
| CZA3 | AA01814R | CCC333K50-B-16CT | DX06 | CH02021M | DIODE 1SS133 T-72 |
| CZA4 | AA01814R | CCC333K50-B-16CT | DX07 | CH02021M | DIODE 1SS133 T-72 |
| CZA5 | AA01814R | CCC333K50-B-16CT | DZ01 | CH02021M | DIODE 1SS133 T-72 |
| CZA6 | AA01814R | CCC333K50-B-16CT | DZ02 | CH02021M | DIODE 1SS133 T-72 |
| CZA7 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DZ03 | CH02021M | DIODE 1SS133 T-72 |
| CZA8 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | DZ04 | CH02021M | DIODE 1SS133 T-72 |
| CZA9 | AA01151R | CERAMIC CAPACITOR(10UF 10V) | | | |
| CZB1 | 0800326R | CAP.-ELECTRO. 100UF-M 16V | | | **UNITS** |
| CZB2 | AA01814R | CCC333K50-B-16CT | HM01 | CZ01091 | GP1UA261XK |
| CZB3 | AA01814R | CCC333K50-B-16CT | U101 | HC00512 | F/E ENGE6106DR |
| CZB4 | AA01814R | CCC333K50-B-16CT | U102 | HC00463 | F/E ENG36614GR |
| CZB5 | AA01814R | CCC333K50-B-16CT | | | |
| CZB6 | 0893125R | CAP 1608CHIP 82PFJCH 50V TAPE | | | **INTEGRATED CIRCUITS** |
| CZB7 | AA01814R | CCC333K50-B-16CT | I001 | CK38641U | M306V7FHFP-FLASH |
| | | | I002 | CK37051R | ANALOG MONOLITHIC IC(BD4729G) |
| | | **DIODES** | I003 | CK35894R | IC CAT24WC32J1 |
| D101 | 2339971M | ZENER HZS33-1 TA | I004 | CK31992R | IC BU4053BCF |
| D102 | 2339971M | ZENER HZS33-1 TA | I201 | CK31992R | IC BU4053BCF |
| D201 | CH02021M | DIODE 1SS133 T-72 | I202 | CK37412U | IR BLASTER MASK S3C80F9XKN-QZR7 |
| D202 | CH02021M | DIODE 1SS133 T-72 | I203 | CK32271R | DIGITAL MONOLITHIC IC (MC74VHCT244ADTR2) |
| D203 | CH02021M | DIODE 1SS133 T-72 | I204 | CK31992R | IC BU4053BCF |
| D205 | CH02021M | DIODE 1SS133 T-72 | I206 | CK32271R | DIGITAL MONOLITHIC IC (MC74VHCT244ADTR2) |
| D206 | CH02021M | DIODE 1SS133 T-72 | I207 | CK01172R | HD74HC221FPEL |
| D207 | CH02021M | DIODE 1SS133 T-72 | I208 | CK35893R | IC CAT24WC16J1 |
| D208 | CH02021M | DIODE 1SS133 T-72 | I401 | CK31991R | ANALOG MONOLITHIC IC BU4052BCF-E2 |
| D209 | CH02021M | DIODE 1SS133 T-72 | I402 | CP02601 | AN5285K |
| D210 | CH02021M | DIODE 1SS133 T-72 | I403 | CK31031R | IC BA3530FS-E2 |
| D211 | CH02021M | DIODE 1SS133 T-72 | I904 | CK37212R | MONO IC TK11125CSCL |
| D401 | 2331771M | ZENER HZ-3A1 TAPE | I905 | CK37194R | MONO IC SI-3050LSA-TL |
| D401A | 2331771M | ZENER HZ-3A1 TAPE | I906 | CK37194R | MONO IC SI-3050LSA-TL |
| D402 | CH02021M | DIODE 1SS133 T-72 | I907 | CK38377R | DIGITAL MONO IC SI-3090KM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| I908 | CK38377R | DIGITAL MONO IC SI-3090KM |
| I909 | CK38377R | DIGITAL MONO IC SI-3090KM |
| I910 | CK37193R | MONO IC SI-3033LSA-TL |
| IJ01 | CK35163R | IC SII907BCQ52 |
| IJ02 | CK37051R | ANALOG MONOLITHIC IC(BD4729G) |
| IJ03 | CA01301R | TRS.CHIP NDC7002N |
| IJ04 | CP05273U | IC M24C02-BN6 |
| IJ05 | CK37194R | MONO IC SI-3050LSA-TL |
| IJ06 | CK37193R | MONO IC SI-3033LSA-TL |
| IM01 | CK38791R | ANALOG MONOLITHIC IC NJW2137V |
| IV01 | CK07631R | DIGITAL MONOLITHIC IC (TC90A45F) |
| IW01 | CK36951U | 3D Y/C SEP IC UPD64083GF-3BA |
| IW02 | CK06097R | ANALOG MONOLITHIC IC(PST9127NR) |
| IX01 | CK30941U | IC CXA2069Q |
| IX02 | CK34811U | IC MM1519XQ |
| IX03 | CK38101R | NJM2584M(SW 50MHz) |
| IZ01 | CK38721R | ANALOG MONOLITHIC IC(TA1383FG) |
| IZ02 | CK38721R | ANALOG MONOLITHIC IC(TA1383FG) |
| IZ03 | CK31041R | IC TA1287F |
| IZ04 | CK38101R | NJM2584M(SW 50MHz) |
| IZ05 | CK31041R | IC TA1287F |
| IZ06 | CK31992R | IC BU4053BCF |
| | | **COILS** |
| L001 | BA00714R | 3225 CHIP COIL 100UH |
| L101 | BA00712R | 3225 CHIP COIL 47UH |
| L102 | BA00712R | 3225 CHIP COIL 47UH |
| L103 | BA00707R | 3225 CHIP COIL 10UH |
| L104 | BA00707R | 3225 CHIP COIL 10UH |
| L105 | BA00707R | 3225 CHIP COIL 10UH |
| L110 | BH01341M | COIL FERRITE BEADS 0.8UH |
| L111 | BH01341M | COIL FERRITE BEADS 0.8UH |
| L112 | BH01341M | COIL FERRITE BEADS 0.8UH |
| L203 | BA00714R | 3225 CHIP COIL 100UH |
| L204 | BA00701R | 3225 CHIP COIL 1.0UH |
| L206 | BA00714R | 3225 CHIP COIL 100UH |
| L207 | BA00714R | 3225 CHIP COIL 100UH |
| L208 | BA00714R | 3225 CHIP COIL 100UH |
| L210 | BA00701R | 3225 CHIP COIL 1.0UH |
| LJ01 | BA00714R | 3225 CHIP COIL 100UH |
| LJ02 | BM00289R | FILTER BLM18BD471SN1D |
| LJ03 | BM00289R | FILTER BLM18BD471SN1D |
| LJ04 | BM00289R | FILTER BLM18BD471SN1D |
| LJ05 | BM00289R | FILTER BLM18BD471SN1D |
| LJ06 | BM00289R | FILTER BLM18BD471SN1D |
| LJ07 | BM00289R | FILTER BLM18BD471SN1D |
| LJ08 | BM00289R | FILTER BLM18BD471SN1D |
| LJ09 | BM00289R | FILTER BLM18BD471SN1D |
| LM01 | BA00714R | 3225 CHIP COIL 100UH |
| LV01 | BA00714R | 3225 CHIP COIL 100UH |
| LV02 | BA00714R | 3225 CHIP COIL 100UH |
| LV03 | BA00712R | 3225 CHIP COIL 47UH |
| LV04 | BA00712R | 3225 CHIP COIL 47UH |
| LV05 | BA00714R | 3225 CHIP COIL 100UH |
| LV06 | 2130416R | COIL CHIP 15-J |
| LW01 | 2130421R | COIL CHIP 33-J |
| LW02 | 2130421R | COIL CHIP 33-J |
| LW03 | BA00714R | 3225 CHIP COIL 100UH |
| LW04 | BA00714R | 3225 CHIP COIL 100UH |
| LW05 | BA00714R | 3225 CHIP COIL 100UH |
| LW06 | BA00714R | 3225 CHIP COIL 100UH |
| LW07 | BA00712R | 3225 CHIP COIL 47UH |
| LW08 | BA00714R | 3225 CHIP COIL 100UH |
| LW10 | BA00714R | 3225 CHIP COIL 100UH |
| LW11 | 2130421R | COIL CHIP 33-J |
| LW12 | 2130421R | COIL CHIP 33-J |
| LW13 | BA00714R | 3225 CHIP COIL 100UH |
| LW14 | BA00712R | 3225 CHIP COIL 47UH |
| LW15 | BA00714R | 3225 CHIP COIL 100UH |
| LX01 | BA00712R | 3225 CHIP COIL 47UH |
| LX02 | BA00714R | 3225 CHIP COIL 100UH |
| LX03 | BA00712R | 3225 CHIP COIL 47UH |
| LX04 | BA00712R | 3225 CHIP COIL 47UH |
| LX06 | BA00714R | 3225 CHIP COIL 100UH |
| LX10 | BA00714R | 3225 CHIP COIL 100UH |
| LZ01 | BA00712R | 3225 CHIP COIL 47UH |
| LZ02 | BA00712R | 3225 CHIP COIL 47UH |
| LZ03 | BA00712R | 3225 CHIP COIL 47UH |
| LZ04 | 2130418R | HLM-220JCNT |
| LZ05 | BA00712R | 3225 CHIP COIL 47UH |
| LZ06 | 2130418R | HLM-220JCNT |
| LZ08 | BA00714R | 3225 CHIP COIL 100UH |
| LZ09 | BA00712R | 3225 CHIP COIL 47UH |
| LZ15 | BA00862R | 2520 CHIP COIL 2.2UH |
| LZ19 | BA00863R | 2520 CHIP COIL 4.7UH |
| LZ20 | BA00714R | 3225 CHIP COIL 100UH |
| | | **TRANSISTORS** |
| Q001 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q002 | CA11163R | TRS.CHIP DTC114EUA |
| Q101 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q102 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q103 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q104 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q105 | CF02781R | TRS. KTC200YAT |
| Q202 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q203 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q204 | CA11271R | TRS 2SA1037AK T146 RS |
| Q205 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q206 | CA11271R | TRS 2SA1037AK T146 RS |
| Q207 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q208 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q209 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q210 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q211 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q212 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q213 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q214 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q215 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q216 | CA11271R | TRS 2SA1037AK T146 RS |
| Q217 | CA11271R | TRS 2SA1037AK T146 RS |
| Q218 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q219 | CA11271R | TRS 2SA1037AK T146 RS |
| Q220 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q221 | CA11271R | TRS 2SA1037AK T146 RS |
| Q222 | CA11271R | TRS 2SA1037AK T146 RS |
| Q223 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q224 | CA11271R | TRS 2SA1037AK T146 RS |
| Q225 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q227 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| Q228 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW04 | CA11271R | TRS 2SA1037AK T146 RS |
| Q229 | CF02781R | TRS. KTC200YAT | QW05 | CA11271R | TRS 2SA1037AK T146 RS |
| Q231 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW06 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q232 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW07 | CA11271R | TRS 2SA1037AK T146 RS |
| Q233 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW08 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q234 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW09 | CA11271R | TRS 2SA1037AK T146 RS |
| Q235 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW10 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q236 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW11 | CA11271R | TRS 2SA1037AK T146 RS |
| Q241 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW12 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q242 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW13 | CA11271R | TRS 2SA1037AK T146 RS |
| Q246 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW14 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q247 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QW15 | CA11271R | TRS 2SA1037AK T146 RS |
| Q248 | CF02771R | TRS. KTA1270 | QW17 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q249 | CF02771R | TRS. KTA1270 | QW18 | CA11271R | TRS 2SA1037AK T146 RS |
| Q250 | CA11271R | TRS 2SA1037AK T146 RS | QX01 | CA00461R | TRS. CHIP 2SD2114K 20V TAPE |
| Q251 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX02 | CA00461R | TRS. CHIP 2SD2114K 20V TAPE |
| Q252 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX03 | CF02781R | TRS. KTC200YAT |
| Q253 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX04 | CF02781R | TRS. KTC200YAT |
| Q254 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX05 | CF02781R | TRS. KTC200YAT |
| Q403 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX08 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q403A | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX12 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q404 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX13 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q405 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX14 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q406 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX15 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q406A | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX16 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q407 | CA00461R | TRS. CHIP 2SD2114K 20V TAPE | QX17 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q407A | CA00461R | TRS. CHIP 2SD2114K 20V TAPE | QX21 | CA11271R | TRS 2SA1037AK T146 RS |
| Q408 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX22 | CA11271R | TRS 2SA1037AK T146 RS |
| Q408A | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX23 | CA11271R | TRS 2SA1037AK T146 RS |
| Q409 | CA00461R | TRS. CHIP 2SD2114K 20V TAPE | QX24 | CA11271R | TRS 2SA1037AK T146 RS |
| Q409A | CA00461R | TRS. CHIP 2SD2114K 20V TAPE | QX25 | CA11271R | TRS 2SA1037AK T146 RS |
| Q410 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX26 | CA11271R | TRS 2SA1037AK T146 RS |
| Q411 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX30 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q411A | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX31 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q412 | CA11271R | TRS 2SA1037AK T146 RS | QX37 | CA11271R | TRS 2SA1037AK T146 RS |
| Q412A | CA11271R | TRS 2SA1037AK T146 RS | QX38 | CA11271R | TRS 2SA1037AK T146 RS |
| Q413 | CA11271R | TRS 2SA1037AK T146 RS | QX39 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q414 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QX40 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| Q415 | CA11271R | TRS 2SA1037AK T146 RS | QZ01 | CA11271R | TRS 2SA1037AK T146 RS |
| Q416 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ02 | CA11271R | TRS 2SA1037AK T146 RS |
| QJ01 | CA11271R | TRS 2SA1037AK T146 RS | QZ03 | CA11271R | TRS 2SA1037AK T146 RS |
| QJ05 | CA11271R | TRS 2SA1037AK T146 RS | QZ04 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QJ09 | CA11271R | TRS 2SA1037AK T146 RS | QZ05 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QJ13 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ06 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QJ14 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ07 | CA11163R | TRS. CHIP DTC114EUA |
| QM01 | CA11161R | DTC144EUA T106 | QZ11 | CA11271R | TRS 2SA1037AK T146 RS |
| QM08 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ12 | CA11271R | TRS 2SA1037AK T146 RS |
| QV01 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ13 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV02 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ14 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV03 | CA11271R | TRS 2SA1037AK T146 RS | QZ15 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV04 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ16 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV05 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ21 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV06 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ22 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV07 | CA11271R | TRS 2SA1037AK T146 RS | QZ27 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV08 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ28 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV09 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ30 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QV10 | CA11271R | TRS 2SA1037AK T146 RS | QZ32 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QW01 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ34 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |
| QW02 | CA11271R | TRS 2SA1037AK T146 RS | QZ35 | CA00331R | TRS. CHIP IMZ1A |
| QW03 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | QZ36 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| QZ37 | CA00331R | TRS.CHIP IMZ1A | R040 | 0790052R | RES.CHIP 1/16W 12K OHM |
| QZ38 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R041 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ39 | CA00331R | TRS.CHIP IMZ1A | R044 | 0790051R | RES.CHIP 1/16W 10K OHM |
| QZ40 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R045 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ41 | CA11271R | TRS 2SA1037AK T146 RS | R046 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ42 | CA11271R | TRS 2SA1037AK T146 RS | R047 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ43 | CA11271R | TRS 2SA1037AK T146 RS | R048 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ46 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R049 | 0790059R | RES.CHIP 1/16W 47K OHM |
| QZ47 | CA11271R | TRS 2SA1037AK T146 RS | R050 | 0790034R | RES.CHIP 1/16W 560 OHM |
| QZ48 | CA11271R | TRS 2SA1037AK T146 RS | R051 | 0790028R | RES.CHIP 1/16W 220 OHM |
| QZ49 | CA11271R | TRS 2SA1037AK T146 RS | R052 | 0790028R | RES.CHIP 1/16W 220 OHM |
| QZ50 | CA11271R | TRS 2SA1037AK T146 RS | R053 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ51 | CA11271R | TRS 2SA1037AK T146 RS | R054 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ52 | CA00331R | TRS.CHIP IMZ1A | R055 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ53 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R056 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ54 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R058 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ55 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R059 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| QZ56 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R060 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ57 | CA00331R | TRS.CHIP IMZ1A | R061 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ58 | CA00331R | TRS.CHIP IMZ1A | R063 | 0790051R | RES.CHIP 1/16W 10K OHM |
| QZ59 | CA00331R | TRS.CHIP IMZ1A | R064 | 0790024R | RES.CHIP 1/16W 100 OHM |
| QZ60 | 2325691R | TRS CHIP 2SC2412K(Q/R TYPE) | R065 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| | | | R071 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| | | **RESISTORS** | R072 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R001 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R073 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R002 | 0790059R | RES.CHIP 1/16W 47K OHM | R074 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R003 | 0790024R | RES.CHIP 1/16W 100 OHM | R075 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R004 | 0790059R | RES.CHIP 1/16W 47K OHM | R076 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R005 | 0790024R | RES.CHIP 1/16W 100 OHM | R077 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R006 | 0790024R | RES.CHIP 1/16W 100 OHM | R078 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R007 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R079 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R008 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R080 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R009 | 0790051R | RES.CHIP 1/16W 10K OHM | R081 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R010 | 0790024R | RES.CHIP 1/16W 100 OHM | R082 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R011 | 0790024R | RES.CHIP 1/16W 100 OHM | R083 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R012 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R084 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R013 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R085 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R015 | 0790024R | RES.CHIP 1/16W 100 OHM | R086 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R016 | 0790024R | RES.CHIP 1/16W 100 OHM | R087 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R017 | 0790024R | RES.CHIP 1/16W 100 OHM | R088 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R018 | 0790024R | RES.CHIP 1/16W 100 OHM | R089 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R019 | 0790024R | RES.CHIP 1/16W 100 OHM | R090 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R020 | 0790051R | RES.CHIP 1/16W 10K OHM | R091 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R021 | 0790051R | RES.CHIP 1/16W 10K OHM | R092 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R022 | 0790051R | RES.CHIP 1/16W 10K OHM | R094 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R023 | 0790051R | RES.CHIP 1/16W 10K OHM | R095 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R024 | 0790024R | RES.CHIP 1/16W 100 OHM | R096 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R025 | 0790024R | RES.CHIP 1/16W 100 OHM | R097 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R026 | 0790024R | RES.CHIP 1/16W 100 OHM | R098 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| R027 | 0790024R | RES.CHIP 1/16W 100 OHM | R099 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R028 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R0A1 | 0790033R | RES.CHIP 1/16W 470 OHM |
| R029 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R0A2 | 0790077R | RES.CHIP 1/16W 1.0M OHM |
| R030 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R0A3 | 0790033R | RES.CHIP 1/16W 470 OHM |
| R031 | 0790024R | RES.CHIP 1/16W 100 OHM | R0A4 | 0790077R | RES.CHIP 1/16W 1.0M OHM |
| R032 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R0A5 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R033 | 0790024R | RES.CHIP 1/16W 100 OHM | R0A7 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R034 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R0A8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R037 | 0790024R | RES.CHIP 1/16W 100 OHM | R0A9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R038 | 0790024R | RES.CHIP 1/16W 100 OHM | R0B5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R039 | 0790051R | RES.CHIP 1/16W 10K OHM | R0C1 | 0790024R | RES.CHIP 1/16W 100 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R0C4 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R138 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R0C5 | 0790043R | RES.CHIP 1/16W 2.7K OHM | R139 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0C6 | 0790043R | RES.CHIP 1/16W 2.7K OHM | R140 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0C7 | 0790043R | RES.CHIP 1/16W 2.7K OHM | R204 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R0C8 | 0790055R | RES.CHIP 1/16W 22K OHM | R205 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0C9 | 0790024R | RES.CHIP 1/16W 100 OHM | R207 | 0790064R | RES.CHIP 1/16W 100K OHM |
| R0D1 | 0790059R | RES.CHIP 1/16W 47K OHM | R208 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R0D3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R209 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R0D4 | 0790024R | RES.CHIP 1/16W 100 OHM | R210 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R0D5 | 0790024R | RES.CHIP 1/16W 100 OHM | R211 | 0790064R | RES.CHIP 1/16W 100K OHM |
| R0D6 | 0790024R | RES.CHIP 1/16W 100 OHM | R212 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R0D7 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R213 | 0790069R | RES.CHIP 1/16W 270K OHM |
| R0D8 | 0790024R | RES.CHIP 1/16W 100 OHM | R214 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0D9 | 0790024R | RES.CHIP 1/16W 100 OHM | R215 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R0E1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R216 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R0E2 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R217 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R0E3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R218 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0E4 | 0790024R | RES.CHIP 1/16W 100 OHM | R219 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R0E5 | 0790024R | RES.CHIP 1/16W 100 OHM | R220 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R0E6 | 0790024R | RES.CHIP 1/16W 100 OHM | R221 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R0E7 | 0790024R | RES.CHIP 1/16W 100 OHM | R222 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0F1 | 0790051R | RES.CHIP 1/16W 10K OHM | R224 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R0F4 | 0790024R | RES.CHIP 1/16W 100 OHM | R225 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0F5 | 0790024R | RES.CHIP 1/16W 100 OHM | R227 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R0F6 | 0790024R | RES.CHIP 1/16W 100 OHM | R228 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0F7 | 0790024R | RES.CHIP 1/16W 100 OHM | R229 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R0F8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R230 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R101 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R231 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R102 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R232 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R103 | 0790051R | RES.CHIP 1/16W 10K OHM | R233 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R104 | 0790051R | RES.CHIP 1/16W 10K OHM | R234 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R105 | 0790055R | RES.CHIP 1/16W 22K OHM | R235 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R106 | 0790055R | RES.CHIP 1/16W 22K OHM | R236 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R107 | 0790051R | RES.CHIP 1/16W 10K OHM | R237 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R108 | 0790051R | RES.CHIP 1/16W 10K OHM | R238 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R109 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R239 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R110 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R240 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R111 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R241 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R112 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R242 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R113 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R245 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R114 | 0790059R | RES.CHIP 1/16W 47K OHM | R246 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| R115 | 0790024R | RES.CHIP 1/16W 100 OHM | R247 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R116 | 0790024R | RES.CHIP 1/16W 100 OHM | R249 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R117 | 0790059R | RES.CHIP 1/16W 47K OHM | R250 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R119 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R251 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R120 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R252 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R122 | 0790028R | RES.CHIP 1/16W 220 OHM | R254 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R123 | 0790028R | RES.CHIP 1/16W 220 OHM | R255 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R124 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R256 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R125 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R257 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R126 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R258 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R127 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R259 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R129 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R260 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R131 | 0790028R | RES.CHIP 1/16W 220 OHM | R261 | 0790061R | RES.CHIP 1/16W 56K OHM |
| R132 | 0790028R | RES.CHIP 1/16W 220 OHM | R262 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R133 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R263 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R134 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R265 | 0790063R | RES.CHIP 1/16W 82K OHM |
| R135 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R266 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R136 | 0790055R | RES.CHIP 1/16W 22K OHM | R267 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R137 | 0790059R | RES.CHIP 1/16W 47K OHM | R268 | 0790024R | RES.CHIP 1/16W 100 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R269 | 0790024R | RES.CHIP 1/16W 100 OHM | R2E4 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R270 | 0790024R | RES.CHIP 1/16W 100 OHM | R2E5 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R271 | 0790024R | RES.CHIP 1/16W 100 OHM | R2E6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R273 | 0790024R | RES.CHIP 1/16W 100 OHM | R2E7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R274 | 0790059R | RES.CHIP 1/16W 47K OHM | R2E8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R275 | 0790059R | RES.CHIP 1/16W 47K OHM | R2E9 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R276 | 0790044R | RES.CHIP 1/16W 3.3K OHM | R2H1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R277 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R2H2 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R278 | 0790059R | RES.CHIP 1/16W 47K OHM | R2H3 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R279 | 0790051R | RES.CHIP 1/16W 10K OHM | R2H4 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R281 | 0790051R | RES.CHIP 1/16W 10K OHM | R2H5 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R282 | 0790057R | RES.CHIP 1/16W 33K OHM | R2H6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R283 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R2H7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R284 | 0790044R | RES.CHIP 1/16W 3.3K OHM | R2J1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R285 | 0790024R | RES.CHIP 1/16W 100 OHM | R2J2 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R286 | 0790059R | RES.CHIP 1/16W 47K OHM | R2J3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R287 | 0790059R | RES.CHIP 1/16W 47K OHM | R2J5 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R288 | 0790058R | RES.CHIP 1/16W 39K OHM | R2J6 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R289 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R2J8 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R290 | 0790024R | RES.CHIP 1/16W 100 OHM | R2K1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R291 | 0790044R | RES.CHIP 1/16W 3.3K OHM | R2K9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R292 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R2L1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R293 | 0790059R | RES.CHIP 1/16W 47K OHM | R2L2 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R294 | 0790051R | RES.CHIP 1/16W 10K OHM | R2L3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R296 | 0790057R | RES.CHIP 1/16W 33K OHM | R2L5 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R297 | 0790051R | RES.CHIP 1/16W 10K OHM | R2L6 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R298 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R2L7 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R299 | 0790044R | RES.CHIP 1/16W 3.3K OHM | R2L8 | 0790036R | RES.CHIP 1/16W 820 OHM |
| R2A1 | 0790024R | RES.CHIP 1/16W 100 OHM | R2L9 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R2A2 | 0790059R | RES.CHIP 1/16W 47K OHM | R2M1 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2A3 | 0790059R | RES.CHIP 1/16W 47K OHM | R2M2 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R2A4 | 0790058R | RES.CHIP 1/16W 39K OHM | R2M3 | 0790036R | RES.CHIP 1/16W 820 OHM |
| R2A5 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R2N5 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2A6 | 0790024R | RES.CHIP 1/16W 100 OHM | R2N6 | 0790068R | RES.CHIP 1/16W 220K OHM |
| R2A7 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R2N7 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2A8 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R2N8 | 0790068R | RES.CHIP 1/16W 220K OHM |
| R2A9 | 0790052R | RES.CHIP 1/16W 12K OHM | R2N9 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2B1 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R2P1 | 0790068R | RES.CHIP 1/16W 220K OHM |
| R2B3 | AQ00189R | RES.CHIP 1/16W 680 OHM TAPE | R2P2 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2B5 | AQ00201R | RES.CHIP 1/16W 1.8K OHM TAPE | R2P3 | 0790068R | RES.CHIP 1/16W 220K OHM |
| R2B6 | 0790042R | RES.CHIP 1/16W 2.2K OHM | R2R3 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R2B7 | 0790054R | RES.CHIP 1/16W 18K OHM | R2R4 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2C1 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R2R7 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2C2 | 0790051R | RES.CHIP 1/16W 10K OHM | R2S1 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R2C3 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R2S2 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R2C5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R2S3 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R2C6 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R2S4 | 0790056R | RES.CHIP 1/16W 27K OHM |
| R2C7 | 0113725M | RESISTOR CARBON FILM SRD1/2P-B 100-J | R2S6 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2C8 | AT03233S | METAL 0X. 47. 00HM 1W | R2S7 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2D2 | 0790024R | RES.CHIP 1/16W 100 OHM | R2S8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2D3 | 0790024R | RES.CHIP 1/16W 100 OHM | R2S9 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2D4 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2D5 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T3 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R2D6 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T4 | 0790064R | RES.CHIP 1/16W 100K OHM |
| R2D7 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T5 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2D8 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T6 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2D9 | 0790024R | RES.CHIP 1/16W 100 OHM | R2T7 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2E1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R2T8 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R2E2 | 0790024R | RES.CHIP 1/16W 100 OHM | R2U8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2E3 | 0790024R | RES.CHIP 1/16W 100 OHM | R2V1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R2V4 | 0790024R | RES.CHIP 1/16W 100 OHM | R428 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2V5 | 0790051R | RES.CHIP 1/16W 10K OHM | R428A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2V6 | 0790024R | RES.CHIP 1/16W 100 OHM | R429 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2V7 | 0790024R | RES.CHIP 1/16W 100 OHM | R429A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2V8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R430 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2V9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R430A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2W1 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R431 | 0790036R | RES.CHIP 1/16W 820 OHM |
| R301 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R431A | 0790036R | RES.CHIP 1/16W 820 OHM |
| R302 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R432 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R303 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R432A | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R304 | 0790024R | RES.CHIP 1/16W 100 OHM | R433 | 0790064R | RES.CHIP 1/16W 100K OHM |
| R305 | 0790024R | RES.CHIP 1/16W 100 OHM | R433A | 0790064R | RES.CHIP 1/16W 100K OHM |
| R306 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R434 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R307 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R434A | 0790028R | RES.CHIP 1/16W 220 OHM |
| R308 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R435 | 0790063R | RES.CHIP 1/16W 82K OHM |
| R309 | 0790024R | RES.CHIP 1/16W 100 OHM | R435A | 0790063R | RES.CHIP 1/16W 82K OHM |
| R310 | 0790024R | RES.CHIP 1/16W 100 OHM | R436 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R311 | 0790042R | RES.CHIP 1/16W 2.2K OHM | R436A | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R312 | 0790059R | RES.CHIP 1/16W 47K OHM | R437 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R313 | 0790059R | RES.CHIP 1/16W 47K OHM | R437A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R314 | 0790059R | RES.CHIP 1/16W 47K OHM | R438 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R315 | 0790055R | RES.CHIP 1/16W 22K OHM | R438A | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R317 | 0790059R | RES.CHIP 1/16W 47K OHM | R439 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R318 | 0790059R | RES.CHIP 1/16W 47K OHM | R439A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R320 | 0790012R | RES.CHIP 1/16W 12 OHM | R440 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R321 | 0790012R | RES.CHIP 1/16W 12 OHM | R440A | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R322 | 0790012R | RES.CHIP 1/16W 12 OHM | R441 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R323 | 0790012R | RES.CHIP 1/16W 12 OHM | R441A | 0790028R | RES.CHIP 1/16W 220 OHM |
| R324 | 0790064R | RES.CHIP 1/16W 100K OHM | R442 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R325 | 0790059R | RES.CHIP 1/16W 47K OHM | R442A | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R326 | 0790024R | RES.CHIP 1/16W 100 OHM | R443 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R327 | 0790031R | RES.CHIP 1/16W 330 OHM | R443A | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R328 | 0790031R | RES.CHIP 1/16W 330 OHM | R444 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R329 | 0790015R | RES.CHIP 1/16W 22 OHM | R445 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| R330 | 0790015R | RES.CHIP 1/16W 22 OHM | R446 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R331 | 0790021R | RES.CHIP 1/16W 56 OHM | R447 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| R332 | 0790021R | RES.CHIP 1/16W 56 OHM | R448 | 0790048R | RES.CHIP 1/16W 6.8K OHM |
| R333 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R449 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R410 | 0790069R | RES.CHIP 1/16W 270K OHM | R450 | AT03669M | RES.MTL GRAZD FLM 1/2W 2.2M |
| R410A | 0790069R | RES.CHIP 1/16W 270K OHM | R451 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R411 | 0790024R | RES.CHIP 1/16W 100 OHM | R451A | 0790024R | RES.CHIP 1/16W 100 OHM |
| R411A | 0790024R | RES.CHIP 1/16W 100 OHM | R452 | 0790034R | RES.CHIP 1/16W 560 OHM |
| R412 | 0790062R | RES.CHIP 1/16W 68K OHM | R452A | 0790034R | RES.CHIP 1/16W 560 OHM |
| R412A | 0790062R | RES.CHIP 1/16W 68K OHM | R453 | 0790034R | RES.CHIP 1/16W 560 OHM |
| R413 | 0790064R | RES.CHIP 1/16W 100K OHM | R453A | 0790034R | RES.CHIP 1/16W 560 OHM |
| R413A | 0790064R | RES.CHIP 1/16W 100K OHM | R454 | 0790039R | RES.CHIP 1/16W 1.5K OHM |
| R414 | 0790044R | RES.CHIP 1/16W 3.3K OHM | R454A | 0790039R | RES.CHIP 1/16W 1.5K OHM |
| R414A | 0790044R | RES.CHIP 1/16W 3.3K OHM | R455 | 0790066R | RES.CHIP 1/16W 150K OHM |
| R417 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R455A | 0790066R | RES.CHIP 1/16W 150K OHM |
| R419 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R456 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R420 | 0790059R | RES.CHIP 1/16W 47K OHM | R456A | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R421 | 0790059R | RES.CHIP 1/16W 47K OHM | R457 | 0188114M | RES.-CARBON FLM 1/2W 56-J |
| R422 | 0790055R | RES.CHIP 1/16W 22K OHM | R458 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R423 | 0790059R | RES.CHIP 1/16W 47K OHM | R459 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R424 | 0790059R | RES.CHIP 1/16W 47K OHM | R460 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R425 | 0790055R | RES.CHIP 1/16W 22K OHM | R461 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R426 | 0790024R | RES.CHIP 1/16W 100 OHM | R462 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R426A | 0790024R | RES.CHIP 1/16W 100 OHM | R463 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R427 | 0790024R | RES.CHIP 1/16W 100 OHM | R464 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R427A | 0790024R | RES.CHIP 1/16W 100 OHM | R465 | 0790061R | RES.CHIP 1/16W 56K OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R466 | 0790061R | RES.CHIP 1/16W 56K OHM | RJ90 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R468 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RJ91 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R469 | 0790051R | RES.CHIP 1/16W 10K OHM | RJ92 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R470 | 0790059R | RES.CHIP 1/16W 47K OHM | RJ93 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R471 | 0790059R | RES.CHIP 1/16W 47K OHM | RJ95 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R472 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RJ96 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R912 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RJ97 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R913 | 0790024R | RES.CHIP 1/16W 100 OHM | RJM9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R915 | 0790024R | RES.CHIP 1/16W 100 OHM | RJN0 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R916 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM01 | 0790035R | RES.CHIP 1/16W 680 OHM |
| R917 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM02 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R918 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM03 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R919 | 0790024R | RES.CHIP 1/16W 100 OHM | RM04 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R920 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM05 | 0790039R | RES.CHIP 1/16W 1.5K OHM |
| RCX26 | 0195250R | RES 2125 CHIP JAMPER WIRE | RM06 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| RJ01 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RM12 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RJ02 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RM13 | 0790036R | RES.CHIP 1/16W 820 OHM |
| RJ03 | 0790024R | RES.CHIP 1/16W 100 OHM | RM51 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| RJ05 | 0790024R | RES.CHIP 1/16W 100 OHM | RM52 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RJ06 | 0790039R | RES.CHIP 1/16W 1.5K OHM | RM53 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| RJ16 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM54 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| RJ17 | 0790023R | RES.CHIP 1/16W 82 OHM | RM55 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RJ18 | 0790023R | RES.CHIP 1/16W 82 OHM | RM56 | 0790026R | RES.CHIP 1/16W 150 OHM |
| RJ19 | 0790024R | RES.CHIP 1/16W 100 OHM | RM57 | 0790055R | RES.CHIP 1/16W 22K OHM |
| RJ21 | 0790024R | RES.CHIP 1/16W 100 OHM | RM58 | 0790052R | RES.CHIP 1/16W 12K OHM |
| RJ22 | 0790039R | RES.CHIP 1/16W 1.5K OHM | RM59 | 0790068R | RES.CHIP 1/16W 220K OHM |
| RJ32 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM60 | 0790052R | RES.CHIP 1/16W 12K OHM |
| RJ33 | 0790023R | RES.CHIP 1/16W 82 OHM | RM61 | 0790052R | RES.CHIP 1/16W 12K OHM |
| RJ34 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RM62 | 0790029R | RES.CHIP 1/16W 270 OHM |
| RJ35 | 0790024R | RES.CHIP 1/16W 100 OHM | RM63 | 0790068R | RES.CHIP 1/16W 220K OHM |
| RJ46 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RM64 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RJ47 | 0790024R | RES.CHIP 1/16W 100 OHM | RM65 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RJ48 | 0790039R | RES.CHIP 1/16W 1.5K OHM | RM66 | 0790047R | RES.CHIP 1/16W 5.6 kOHM |
| RJ49 | AQ00172R | RES.CHIP 1/16W 150 OHM TAPE | RV01 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ50 | 0790057R | RES.CHIP 1/16W 33K OHM | RV02 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| RJ52 | 0790051R | RES.CHIP 1/16W 10K OHM | RV03 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RJ53 | 0790051R | RES.CHIP 1/16W 10K OHM | RV04 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RJ54 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RV05 | 0790059R | RES.CHIP 1/16W 47K OHM |
| RJ55 | 0790024R | RES.CHIP 1/16W 100 OHM | RV06 | 0790055R | RES.CHIP 1/16W 22K OHM |
| RJ56 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV07 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ57 | 0790024R | RES.CHIP 1/16W 100 OHM | RV08 | 0790035R | RES.CHIP 1/16W 680 OHM |
| RJ58 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV09 | 0790034R | RES.CHIP 1/16W 560 OHM |
| RJ59 | 0790057R | RES.CHIP 1/16W 33K OHM | RV10 | AQ00193R | RES.CHIP 1/16W 910 OHM TAPE |
| RJ65 | 0790051R | RES.CHIP 1/16W 10K OHM | RV12 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ68 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV13 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RJ69 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV14 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RJ70 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV15 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ71 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV16 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| RJ72 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV17 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RJ73 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV18 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RJ74 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV19 | 0790059R | RES.CHIP 1/16W 47K OHM |
| RJ75 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RV20 | 0790055R | RES.CHIP 1/16W 22K OHM |
| RJ76 | AQ00149R | RES.CHIP 1/16W 22 OHM TAPE | RV21 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ77 | AQ00183R | RES.CHIP 1/16W 390 OHM TAPE | RV22 | 0790035R | RES.CHIP 1/16W 680 OHM |
| RJ82 | 0790057R | RES.CHIP 1/16W 33K OHM | RV23 | 0790034R | RES.CHIP 1/16W 560 OHM |
| RJ83 | 0790057R | RES.CHIP 1/16W 33K OHM | RV24 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RJ85 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RV26 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RJ86 | 0790024R | RES.CHIP 1/16W 100 OHM | RV27 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RJ88 | 0790024R | RES.CHIP 1/16W 100 OHM | RV28 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RJ89 | 0790059R | RES.CHIP 1/16W 47K OHM | RV30 | 0790036R | RES.CHIP 1/16W 820 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| RV31 | 0790056R | RES.CHIP 1/16W 27K OHM | RW60 | 0790027R | RES.CHIP 1/16W 180 OHM |
| RV32 | 0790064R | RES.CHIP 1/16W 100K OHM | RW61 | 0790036R | RES.CHIP 1/16W 820 OHM |
| RV33 | 0790024R | RES.CHIP 1/16W 100 OHM | RW62 | 0790059R | RES.CHIP 1/16W 47K OHM |
| RV35 | 0790033R | RES.CHIP 1/16W 470 OHM | RW63 | 0196102R | RES.-1608CHIP 1/16W 24K-J TAPE |
| RV36 | 0196064R | RES.-1608CHIP 1/16W 750-J TAPE | RW64 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RV37 | 0196064R | RES.-1608CHIP 1/16W 750-J TAPE | RW67 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RV38 | 0790024R | RES.CHIP 1/16W 100 OHM | RX01 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RV39 | 0790043R | RES.CHIP 1/16W 2.7K OHM | RX02 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW01 | 0790055R | RES.CHIP 1/16W 22K OHM | RX03 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW02 | 0790056R | RES.CHIP 1/16W 27K OHM | RX04 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW03 | 0790024R | RES.CHIP 1/16W 100 OHM | RX05 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW04 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RX06 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW05 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX07 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW06 | 0790027R | RES.CHIP 1/16W 180 OHM | RX08 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW07 | 0790036R | RES.CHIP 1/16W 820 OHM | RX09 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW08 | 0790044R | RES.CHIP 1/16W 3.3K OHM | RX10 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW09 | 0790061R | RES.CHIP 1/16W 56K OHM | RX11 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW10 | 0790055R | RES.CHIP 1/16W 22K OHM | RX12 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW11 | 0790048R | RES.CHIP 1/16W 6.8K OHM | RX13 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW12 | 0790041R | RES.CHIP 1/16W 1.8K OHM | RX14 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW13 | 0790024R | RES.CHIP 1/16W 100 OHM | RX15 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW14 | 0790039R | RES.CHIP 1/16W 1.5K OHM | RX16 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW15 | 0790028R | RES.CHIP 1/16W 220 OHM | RX17 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW16 | 0790059R | RES.CHIP 1/16W 47K OHM | RX18 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW17 | 0790068R | RES.CHIP 1/16W 220K OHM | RX19 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW18 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX20 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW19 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RX21 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW20 | 0790033R | RES.CHIP 1/16W 470 OHM | RX22 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW21 | 0790046R | RES.CHIP 1/16W 4.7K OHM | RX23 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW22 | 0790011R | RES.CHIP 1/16W 10 OHM | RX24 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW23 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RX25 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW24 | AQ00194R | RES.CHIP 1/16W 1.0K OHM TAPE | RX26 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW25 | AQ00194R | RES.CHIP 1/16W 1.0K OHM TAPE | RX27 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW26 | 0790058R | RES.CHIP 1/16W 39K OHM | RX28 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW27 | 0790051R | RES.CHIP 1/16W 10K OHM | RX29 | 0790069R | RES.CHIP 1/16W 270K OHM |
| RW28 | 0790024R | RES.CHIP 1/16W 100 OHM | RX30 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW29 | AQ00187R | RES.CHIP 1/16W 560 OHM TAPE | RX31 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RW30 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX32 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW31 | AQ00194R | RES.CHIP 1/16W 1.0K OHM TAPE | RX33 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW33 | AQ00187R | RES.CHIP 1/16W 560 OHM TAPE | RX34 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RW34 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX35 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW35 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RX36 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW36 | 0790011R | RES.CHIP 1/16W 10 OHM | RX37 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW37 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RX38 | 0790064R | RES.CHIP 1/16W 100K OHM |
| RW38 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX39 | 0790064R | RES.CHIP 1/16W 100K OHM |
| RW39 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX40 | 0790064R | RES.CHIP 1/16W 100K OHM |
| RW40 | 0790058R | RES.CHIP 1/16W 39K OHM | RX41 | 0790064R | RES.CHIP 1/16W 100K OHM |
| RW41 | 0790051R | RES.CHIP 1/16W 10K OHM | RX42 | 0790064R | RES.CHIP 1/16W 100K OHM |
| RW42 | 0790024R | RES.CHIP 1/16W 100 OHM | RX43 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RW43 | 0790034R | RES.CHIP 1/16W 560 OHM | RX44 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RW44 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX45 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW45 | 0790044R | RES.CHIP 1/16W 3.3K OHM | RX46 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW47 | 0790024R | RES.CHIP 1/16W 100 OHM | RX47 | 0790063R | RES.CHIP 1/16W 82K OHM |
| RW48 | 0790024R | RES.CHIP 1/16W 100 OHM | RX48 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW50 | 0790064R | RES.CHIP 1/16W 100K OHM | RX49 | 0790063R | RES.CHIP 1/16W 82K OHM |
| RW55 | 0790064R | RES.CHIP 1/16W 100K OHM | RX50 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RW56 | 0790065R | RES.CHIP 1/16W 120K OHM | RX51 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE |
| RW57 | 0790024R | RES.CHIP 1/16W 100 OHM | RX52 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RW58 | 0790034R | RES.CHIP 1/16W 560 OHM | RX53 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE |
| RW59 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RX54 | 0790024R | RES.CHIP 1/16W 100 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| RX55 | AQ00163R | RES.CHIP 1/16W 68 OHM TAPE | RXE7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RX56 | 0790024R | RES.CHIP 1/16W 100 OHM | RXE8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RX57 | 0790034R | RES.CHIP 1/16W 560 OHM | RXE9 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RX58 | 0790034R | RES.CHIP 1/16W 560 OHM | RXF8 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX59 | 0790034R | RES.CHIP 1/16W 560 OHM | RXF9 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX60 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG1 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX61 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG2 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX62 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG3 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX63 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG4 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX64 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG5 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX65 | 0790034R | RES.CHIP 1/16W 560 OHM | RXG6 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX68 | 0790024R | RES.CHIP 1/16W 100 OHM | RXG7 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX69 | 0790024R | RES.CHIP 1/16W 100 OHM | RXH2 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX70 | 0790024R | RES.CHIP 1/16W 100 OHM | RXH3 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX71 | 0790024R | RES.CHIP 1/16W 100 OHM | RXH4 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX72 | 0790024R | RES.CHIP 1/16W 100 OHM | RXH5 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX73 | 0790024R | RES.CHIP 1/16W 100 OHM | RXH6 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX79 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RXH7 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RX84 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RXH8 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX85 | 0790068R | RES.CHIP 1/16W 220K OHM | RXH9 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX86 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RXJ1 | 0790041R | RES.CHIP 1/16W 1.8K OHM |
| RX87 | 0790068R | RES.CHIP 1/16W 220K OHM | RXJ2 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RX94 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RXJ3 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RX95 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RXJ4 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| RX96 | 0790024R | RES.CHIP 1/16W 100 OHM | RXJ5 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| RX97 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RXK5 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RX98 | 0790024R | RES.CHIP 1/16W 100 OHM | RXK6 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RXA3 | AQ00193R | RES.CHIP 1/16W 910 OHM TAPE | RXK7 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RXA6 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RXL1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXA7 | 0790047R | RES.CHIP 1/16W 5.6K OHM | RXL5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXA8 | 0790024R | RES.CHIP 1/16W 100 OHM | RXL9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXA9 | AQ00193R | RES.CHIP 1/16W 910 OHM TAPE | RXM1 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RXB1 | 0790069R | RES.CHIP 1/16W 270K OHM | RXM2 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXB2 | 0790069R | RES.CHIP 1/16W 270K OHM | RXM3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXB6 | 0790022R | RES.CHIP 1/16W 68 OHM | RXM4 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXB7 | 0790022R | RES.CHIP 1/16W 68 OHM | RXM6 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXB8 | 0790022R | RES.CHIP 1/16W 68 OHM | RXM7 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXB9 | 0790022R | RES.CHIP 1/16W 68 OHM | RXM8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RXC1 | 0790022R | RES.CHIP 1/16W 68 OHM | RXP5 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC2 | 0790022R | RES.CHIP 1/16W 68 OHM | RXP6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC3 | 0790022R | RES.CHIP 1/16W 68 OHM | RXP7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC4 | 0790022R | RES.CHIP 1/16W 68 OHM | RXQ4 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC5 | 0790024R | RES.CHIP 1/16W 100 OHM | RXR1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC6 | 0790024R | RES.CHIP 1/16W 100 OHM | RXR8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXC7 | 0790024R | RES.CHIP 1/16W 100 OHM | RXR9 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RXC8 | 0790024R | RES.CHIP 1/16W 100 OHM | RXS1 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RXC9 | 0790024R | RES.CHIP 1/16W 100 OHM | RXS2 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RXD1 | 0790024R | RES.CHIP 1/16W 100 OHM | RXS3 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RXD2 | 0790024R | RES.CHIP 1/16W 100 OHM | RXS4 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RXD3 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RXS5 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RXD4 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RY01 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RXD5 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE | RY02 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| RXD7 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RY04 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXD9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RY05 | AQ00164R | RES.CHIP 1/16W 75 OHM TAPE |
| RXE1 | 0790024R | RES.CHIP 1/16W 100 OHM | RY06 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXE2 | 0790024R | RES.CHIP 1/16W 100 OHM | RY07 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXE5 | 0790024R | RES.CHIP 1/16W 100 OHM | RY08 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RXE6 | 0790024R | RES.CHIP 1/16W 100 OHM | RY09 | 0790024R | RES.CHIP 1/16W 100 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| RY10 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ32 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY11 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ33 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RY12 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZ34 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RY13 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ35 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY14 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ36 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY15 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ37 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY16 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZ38 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY17 | AQ00194R | RES.CHIP 1/16W 1.0K OHM TAPE | RZ39 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY18 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ40 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY19 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ41 | 0196087R | RES.-1608CHIP 1/16W 6.2K-J TAPE |
| RY20 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ42 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RY21 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZ44 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY22 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ45 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY23 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ46 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY24 | AQ00194R | RES.CHIP 1/16W 1.0K OHM TAPE | RZ47 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY65 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ48 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY66 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ49 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY85 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ50 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY86 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ51 | 0196104R | RES 1608 CHIP 1/16W 30KJ TAPE |
| RY87 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ52 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY88 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ53 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY89 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ54 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RY90 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ55 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RYA1 | 0790047R | RES.CHIP 1/16W 5.6K OHM | RZ56 | 0790032R | RES.CHIP 1/16W 390 OHM |
| RYA2 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ57 | 0790032R | RES.CHIP 1/16W 390 OHM |
| RYA3 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZ58 | 0790034R | RES.CHIP 1/16W 560 OHM |
| RZ01 | 0790051R | RES.CHIP 1/16W 10K OHM | RZ59 | 0790053R | RES.CHIP 1/16W 15K OHM |
| RZ02 | 0790051R | RES.CHIP 1/16W 10K OHM | RZ60 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ03 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ61 | 0790052R | RES.CHIP 1/16W 12K OHM |
| RZ04 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ62 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZ05 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ63 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ06 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ64 | 0790049R | RES.CHIP 1/16W 8.2K OHM |
| RZ07 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ65 | 0790054R | RES.CHIP 1/16W 18K OHM |
| RZ08 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ74 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| RZ09 | 0196087R | RES.-1608CHIP 1/16W 6.2K-J TAPE | RZ75 | 0790043R | RES.CHIP 1/16W 2.7K OHM |
| RZ10 | 0790033R | RES.CHIP 1/16W 470 OHM | RZ76 | 0790031R | RES.CHIP 1/16W 330 OHM |
| RZ11 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ77 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ13 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ78 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| RZ14 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ79 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ15 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ80 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| RZ16 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ81 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ17 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ82 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ18 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ83 | 0790032R | RES.CHIP 1/16W 390 OHM |
| RZ19 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZ84 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZ20 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZ85 | 0790034R | RES.CHIP 1/16W 560 OHM |
| RZ21 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZ86 | 0790053R | RES.CHIP 1/16W 15K OHM |
| RZ22 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ87 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ23 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ88 | 0790052R | RES.CHIP 1/16W 12K OHM |
| RZ24 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZ89 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZ25 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZ90 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZ26 | 0790043R | RES.CHIP 1/16W 2.7K OHM | RZ91 | 0790049R | RES.CHIP 1/16W 8.2K OHM |
| RZ27 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZ92 | 0790054R | RES.CHIP 1/16W 18K OHM |
| RZ28 | 0196104R | RES 1608 CHIP 1/16W 30KJ TAPE | RZ93 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RZ29 | 0790024R | RES.CHIP 1/16W 100 OHM | RZ94 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RZ30 | 0790024R | RES.CHIP 1/16W 100 OHM | RZA5 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZ31 | 0790024R | RES.CHIP 1/16W 100 OHM | RZA6 | 0790033R | RES.CHIP 1/16W 470 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| RZB5 | 0790033R | RES.CHIP 1/16W 470 OHM | RZM3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZB6 | 0790033R | RES.CHIP 1/16W 470 OHM | RZM4 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZB7 | 0790024R | RES.CHIP 1/16W 100 OHM | RZM5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZB8 | 0790024R | RES.CHIP 1/16W 100 OHM | RZM6 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZB9 | 0790024R | RES.CHIP 1/16W 100 OHM | RZM7 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZC1 | 0790024R | RES.CHIP 1/16W 100 OHM | RZM8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZC2 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZM9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZC3 | 0790024R | RES.CHIP 1/16W 100 OHM | RZN1 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZC4 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZN2 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RZC5 | 0790024R | RES.CHIP 1/16W 100 OHM | RZN3 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZC6 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZN4 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RZC7 | 0790024R | RES.CHIP 1/16W 100 OHM | RZN5 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZC8 | 0790033R | RES.CHIP 1/16W 470 OHM | RZN6 | 0790028R | RES.CHIP 1/16W 220 OHM |
| RZC9 | 0790024R | RES.CHIP 1/16W 100 OHM | RZN7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZD1 | 0790033R | RES.CHIP 1/16W 470 OHM | RZN8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZD2 | 0790033R | RES.CHIP 1/16W 470 OHM | RZN9 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZD3 | 0790028R | RES.CHIP 1/16W 220 OHM | RZP1 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZD4 | 0790032R | RES.CHIP 1/16W 390 OHM | RZP2 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZD5 | 0790033R | RES.CHIP 1/16W 470 OHM | RZP3 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZD6 | 0790024R | RES.CHIP 1/16W 100 OHM | RZP4 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZD7 | 0790033R | RES.CHIP 1/16W 470 OHM | RZP5 | 0790034R | RES.CHIP 1/16W 560 OHM |
| RZD8 | 0790038R | RES.CHIP 1/16W 1.2K OHM | RZP6 | 0790031R | RES.CHIP 1/16W 330 OHM |
| RZD9 | 0790028R | RES.CHIP 1/16W 220 OHM | RZP7 | 0790021R | RES.CHIP 1/16W 56 OHM |
| RZE1 | 0790036R | RES.CHIP 1/16W 820 OHM | RZP9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZE2 | 0790033R | RES.CHIP 1/16W 470 OHM | RZQ1 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RZE3 | 0790024R | RES.CHIP 1/16W 100 OHM | RZQ3 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| RZE4 | 0790036R | RES.CHIP 1/16W 820 OHM | RZQ4 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| RZE5 | 0790033R | RES.CHIP 1/16W 470 OHM | RZQ5 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RZE6 | 0790028R | RES.CHIP 1/16W 220 OHM | RZQ6 | 0790049R | RES.CHIP 1/16W 8.2K OHM |
| RZE7 | 0790036R | RES.CHIP 1/16W 820 OHM | RZQ7 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZE8 | 0790048R | RES.CHIP 1/16W 6.8K OHM | RZQ8 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZE9 | 0790044R | RES.CHIP 1/16W 3.3K OHM | RZQ9 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZF5 | 0790037R | RES.CHIP 1/16W 1.0K OHM | RZR1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZF6 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZR2 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZF7 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZR3 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZF8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | RZR4 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZF9 | 0790024R | RES.CHIP 1/16W 100 OHM | RZR5 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZG1 | 0790024R | RES.CHIP 1/16W 100 OHM | RZR6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZG2 | 0790024R | RES.CHIP 1/16W 100 OHM | RZR7 | 0790059R | RES.CHIP 1/16W 47K OHM |
| RZG3 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZR8 | 0790051R | RES.CHIP 1/16W 10K OHM |
| RZG4 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZR9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| RZG5 | 0790042R | RES.CHIP 1/16W 2.2K OHM | RZS1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZG7 | 0790061R | RES.CHIP 1/16W 56K OHM | RZS2 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| RZG8 | 0790058R | RES.CHIP 1/16W 39K OHM | RZS3 | 0790058R | RES.CHIP 1/16W 39K OHM |
| RZG9 | 0790061R | RES.CHIP 1/16W 56K OHM | RZS4 | 0790061R | RES.CHIP 1/16W 56K OHM |
| RZH1 | 0790058R | RES.CHIP 1/16W 39K OHM | RZS5 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZH2 | 0790061R | RES.CHIP 1/16W 56K OHM | RZS6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZH3 | 0790058R | RES.CHIP 1/16W 39K OHM | RZS8 | 0790036R | RES.CHIP 1/16W 820 OHM |
| RZH4 | 0790049R | RES.CHIP 1/16W 8.2K OHM | RZS9 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZH5 | 0790046R | RES.CHIP 1/16W 4.7K OHM | RZT1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZH7 | 0790055R | RES.CHIP 1/16W 22K OHM | RZT2 | 0790036R | RES.CHIP 1/16W 820 OHM |
| RZH8 | 0790055R | RES.CHIP 1/16W 22K OHM | RZT3 | 0790055R | RES.CHIP 1/16W 22K OHM |
| RZH9 | 0790051R | RES.CHIP 1/16W 10K OHM | RZT4 | 0790055R | RES.CHIP 1/16W 22K OHM |
| RZL8 | 0790051R | RES.CHIP 1/16W 10K OHM | RZT6 | 0790058R | RES.CHIP 1/16W 39K OHM |
| RZL9 | 0790046R | RES.CHIP 1/16W 4.7K OHM | RZT7 | 0790048R | RES.CHIP 1/16W 6.8K OHM |
| RZM1 | 0790038R | RES.CHIP 1/16W 1.2K OHM | RZT8 | 0790044R | RES.CHIP 1/16W 3.3K OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| RZT9 | 0790061R | RES.CHIP 1/16W 56K OHM |
| RZU1 | 0790058R | RES.CHIP 1/16W 39K OHM |
| RZU2 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZU3 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZU4 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZU5 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZU6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZU7 | 0790032R | RES.CHIP 1/16W 390 OHM |
| RZU8 | 0790021R | RES.CHIP 1/16W 56 OHM |
| RZU9 | 0790061R | RES.CHIP 1/16W 56K OHM |
| RZV1 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZV2 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZV3 | 0790033R | RES.CHIP 1/16W 470 OHM |
| RZV4 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RZV5 | 0790038R | RES.CHIP 1/16W 1.2K OHM |
| RZV6 | 0790024R | RES.CHIP 1/16W 100 OHM |
| RZV7 | 0790036R | RES.CHIP 1/16W 820 OHM |
| RZV8 | 0790051R | RES.CHIP 1/16W 10K OHM |
| | | **SWITCHES** |
| SM01 | FE00001R | PUSH SWITCH |
| SM02 | FE00001R | PUSH SWITCH |
| SM03 | FE00001R | PUSH SWITCH |
| SM04 | FE00001R | PUSH SWITCH |
| SM05 | FE00001R | PUSH SWITCH |
| SM06 | FE00001R | PUSH SWITCH |
| SM07 | 2634621 | SWITCH BLOCK VR |
| | | **CRYSTALS** |
| X001 | BP01311R | CSTLS16M0X |
| X201 | BP01313R | CSTLS8M00G53 |
| XV01 | BE00351 | 6.0MHZ LOW PASS LC FILTER |
| XV02 | BE00341 | 3.58MHZ BAND PASS LC FILTER |
| XW01 | BE00351 | 6.0MHZ LOW PASS LC FILTER |
| XW02 | BE00341 | 3.58MHZ BAND PASS LC FILTER |
| XZ01 | 2168771 | VFL-CSB503F30 |
| XZ02 | 2791501 | CRYSTAL HC-49/U |
| XZ03 | 2168771 | VFL-CSB503F30 |
| XZ04 | 2791501 | CRYSTAL HC-49/U |
| | | **MISCELLANEOUS** |
| EAN | 2974052S | CONNECTOR 03C-B2R5-800 |
| HJ01 | 2791754R | CONDENSER WITH 3 TERMINAL 100PF |
| HJ02 | 2791754R | CONDENSER WITH 3 TERMINAL 100PF |
| HJ03 | 2791754R | CONDENSER WITH 3 TERMINAL 100PF |
| J201 | ES00511 | JACK HSJ1002-01-1020 |
| J401 | EU01331 | TERMINAL YKC21-4519N |
| J402 | 2672041 | MINI HEADPHONE JACK |
| JX01 | EU01312 | TERMINAL BOARD YKC21-8525 |
| JX02 | EU01312 | TERMINAL BOARD YKC21-8525 |
| JX03 | ES00351 | JACK LAP5120-0101F US9P Y/C3P |
| JX04 | EU01051 | TAP PIN JACK (FRONT) 3P+S |
| P50FP | EA00932R | 0.5MM PITCH FPC CONNECTOR FH12-50S-0.5SV |
| PCS | 2959058 | PINPOST 9P PH |
| PDJ1 | ED03473 | CP-24BP1R9H^DVI-D |
| PFH2 | 2902261 | PLUG PIN SUB MINI 2P |

| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| PFSA | 2959059 | PLUG PH PIN POST 10P |
| PFSB | 2675289 | PLUG 10P |
| PFSH | 2959059 | PLUG PH PIN POST 10P |
| PJIG | 2902266 | PLUG PIN SUB MINI 7P |
| PRST | 2902261 | PLUG PIN SUB MINI 2P |
| PSC | EA00068R | 9P SMT PH CONNECTOR POST |
| PSP | ED04163U | B TO B CONNECTOR 19RK-1.25FJN |
| | | **AVC51 POWER PWB ASSY (P# JT23981)** |
| | | **CAPACITORS** |
| ⚠ C901 | AN01443S | ACROSS CAPA 0.1UF 250V RE104 |
| ⚠ C902 | AN01443S | ACROSS CAPA 0.1UF 250V RE104 |
| ⚠ C903 | AJ00184F | CAP. CERAMIC CD12-E2GA222MYNS |
| ⚠ C904 | AJ00184F | CAP. CERAMIC CD12-E2GA222MYNS |
| ⚠ C905 | AJ00167F | CAP.CERAMIC CS12-F2GA472MYNS |
| ⚠ C906 | AJ00167F | CAP.CERAMIC CS12-F2GA472MYNS |
| C907 | AL02281 | CE-221M450EW KMM SERIES |
| C909 | AL00062R | ALUMINIUM ELECTROLYTIC CAP.(22UF450V ) |
| C910 | 0299981F | CAP.-POLYESTER 0.01UF-J 630V |
| C912 | 0800321R | CAP.-ELECTRO. 47UF-M 50V |
| C913 | 0244202R | CAP. CERAMIC DE0907R471K2K |
| C916 | 0893044R | CAP2125CHIP 10000PFKB 50V TAPE |
| C918 | 0229008R | CK73SB1H821KR |
| C919 | AJ00155R | CAP. CERAMIC CS85-B2GA471KYVS |
| ⚠ C920 | AJ00182F | CAP. CERAMIC CD85-E2GA102MYNS |
| C930 | 0800354R | CAP.-ELECTRO. 470UF-M 25V |
| C931 | 0800345R | CAP.-ELECTRO. 330UF-M(SMG) 25V |
| C932 | 0893044R | CAP2125CHIP 10000PFKB 50V TAPE |
| C933 | 0800294R | CAP.-ELECTRO. 10UF-M(SMG) 50V |
| C934 | 0800291R | CAP.-ELECTRO. 10UF-M(SMG) 16V |
| C935 | 0800291R | CAP.-ELECTRO. 10UF-M(SMG) 16V |
| C936 | 0800329R | CAP.-ELECTRO. 100UF-M(SMG) 50V |
| C937 | AL01858R | 1000UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C938 | AL01858R | 1000UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C939 | AL01851R | 2200UF 16V ALUMINIUM ELECTROLYTIC CAP. |
| C940 | AL01851R | 2200UF 16V ALUMINIUM ELECTROLYTIC CAP. |
| C942 | 0800303R | CAP.-ELECTRO. 22UF-M 50V |
| C943 | 0800303R | CAP.-ELECTRO. 22UF-M 50V |
| C944 | 0893053R | CAP2125CHIP 47000PFKB 50V TAPE |
| C945 | 0893027R | CAP 2125 CHIP 100000PF-K B 25V TAPE |
| C946 | 0893027R | CAP 2125 CHIP 100000PF-K B 25V TAPE |
| C947 | 0893027R | CAP 2125 CHIP 100000PF-K B 25V TAPE |
| C948 | 0893042R | CAP 2125CHIP 6800PFKB 50V TAPE |
| C949 | AL01833R | 1000UF 6.3V ALUMINIUM ELECTROLYTIC CAP. |
| C950 | AL01833R | 1000UF 6.3V ALUMINIUM ELECTROLYTIC CAP. |
| C951 | AL01857R | 470UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C952 | 0893048R | CAP2125CHIP 22000PFKB 50V TAPE |
| C954 | AL01833R | 1000UF 6.3V ALUMINIUM ELECTROLYTIC CAP. |
| C957 | AL01857R | 470UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C958 | 0893053R | CAP2125CHIP 47000PFKB 50V TAPE |
| C959 | 0229008R | CK73SB1H821KR |
| C960 | 0893027R | CAP 2125 CHIP 100000PF-K B 25V TAPE |
| C962 | 0893027R | CAP 2125 CHIP 100000PF-K B 25V TAPE |
| C963 | AL01833R | 1000UF 6.3V ALUMINIUM ELECTROLYTIC CAP. |
| C965 | 0800297R | CAP.ELECTRO.22UF-M 6.3V(SMG) |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| C968 | 0800315R | CAP.-ELECTRO. 47UF-M(SMG) 6.3V |
| C972 | AL01857R | 470UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C973 | 0893042R | CAP 2125CHIP 6800PFKB 50V TAPE |
| C974 | 0893042R | CAP 2125CHIP 6800PFKB 50V TAPE |
| C975 | 0893042R | CAP 2125CHIP 6800PFKB 50V TAPE |
| C991 | 0229008R | CK73SB1H821KR |
| | | |
| | | **DIODES** |
| ⚠ D901 | 2342061 | DIODE D3SB(A)60. |
| ⚠ D902 | CH00051 | DIODE SD-S1WB(A)60B (600V) |
| D903 | 2338531M | DIODE EG-01C (V) SI 0.5A |
| D904 | 2338531M | DIODE EG-01C (V) SI 0.5A |
| D905 | CH00172M | DIODE DFM1SD2(200V)TAPE |
| D906 | 2334304M | ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V |
| D907 | 2337341M | DIODE 1SS270A (TP) |
| D908 | 2337341M | DIODE 1SS270A (TP) |
| D909 | 2337341M | DIODE 1SS270A (TP) |
| D911 | 2331795M | ZENER HZ-5 (B2 TAPE) SI 200MA 4.9V |
| D928 | 2338531M | DIODE EG-01C (V) SI 0.5A |
| D930 | CH00151M | DIODE DSM1SD2(200V)TAPE |
| D931 | 2337341M | DIODE 1SS270A (TP) |
| D932 | 2337341M | DIODE 1SS270A (TP) |
| D933 | CH00172M | DIODE DFM1SD2(200V)TAPE |
| D934 | 2338944 | DIODE FML-G12S (F) (200V) |
| D935 | 2349851 | DIODE FMB-G16L |
| D936 | 2339782R | DIODE.CHIP DAN202UT106(80V) |
| D938 | 2339847M | ZENER HZS6C1 TA |
| D939 | 2337341M | DIODE 1SS270A (TP) |
| D940 | 2337341M | DIODE 1SS270A (TP) |
| D941 | 2337341M | DIODE 1SS270A (TP) |
| D942 | 2337341M | DIODE 1SS270A (TP) |
| D944 | CH00151M | DIODE DSM1SD2(200V)TAPE |
| D945 | 2339835M | ZENER HZS5B2 TAPE |
| D946 | 2337341M | DIODE 1SS270A (TP) |
| D947 | 2339835M | ZENER HZS5B2 TAPE |
| D948 | 2339845M | ZENER DIODE HZS6 (B2) |
| D949 | CC01661R | DIODE SFPJ-73 |
| D950 | CC01661R | DIODE SFPJ-73 |
| D955 | 2339865M | ZENER DIODE HZS9 (B2) |
| D959 | CH01042M | DIODE RK34 (40V) |
| | | |
| | | **FUSES** |
| ⚠F901 | FN00062 | FUSE UL-TSC 005A |
| ⚠F902 | FN00404 | FUSE UL TSC 2.5A N1 125V |
| | | |
| | | **INTEGRATED CIRCUITS** |
| ⚠I901 | CZ00869 | HYBRID IC- STR-F6668B(LF1351) |
| ⚠I902 | CP07851 | MONO IC TLP421 |
| ⚠I905 | CP07851 | MONO IC TLP421 |
| I930 | CK37171R | MONO IC SPI-8010A |
| I931 | CP08111U | MONO IC SI-8010GL |
| I932 | CK37194R | MONO IC SI-3050LSA-TL |
| I933 | CK37162R | MONO IC SI-8033JD |
| | | |
| | | **COILS** |
| ⚠L901 | BZ05441 | LINE FILTER 16MH/1.5A |

| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| L903 | 2123462M | FERRITE BEADS CORE B 2.3UH |
| L904 | 2125797N | FILT.COIL(LHL08 10UH) |
| L906 | 2123462M | FERRITE BEADS CORE B 2.3UH |
| ⚠L907 | BZ04781 | LINE FILTER 1MH |
| L930 | 2125806N | FILT.COIL(LHL08 47UH) |
| L931 | BA00627R | C12-K4.5L SMD COIL 47UH |
| L932 | BA00632R | C12-K4.5L SMD COIL 100UH |
| L933 | BA00621R | C12-K4.5L SMD COIL 15UH |
| | | |
| | | **TRANSISTORS** |
| Q930 | 2327772M | TRS.2SC3413 TAPE (B/C) |
| Q931 | 2316244R | TRS.CHIP 2SC4081 R |
| Q932 | 2316231R | TRS 2SA1576-T107-R |
| Q933 | 2323782R | THYRISTOR 03P2M |
| Q934 | 2316244R | TRS.CHIP 2SC4081 R |
| Q936 | 2316244R | TRS.CHIP 2SC4081 R |
| Q937 | CA11161R | DTC144EUA T106 |
| Q938 | CA11161R | DTC144EUA T106 |
| | | |
| | | **RESISTORS** |
| ⚠ R901 | AT03672M | RES.MTL GRAZD FLM 1/2W 3.3M |
| R903 | 0147618 | RES.-WIRE WOUND 7W 2.2-KM |
| R904 | AT02627R | METAL OXIDE RESISTOR (683OHM 3W ) |
| R905 | AT02623R | METAL OXIDE RESISTOR (473OHM 3W ) |
| R907 | 0179536M | RES.-METAL GRAZED FILM 1M J TAPE |
| R908 | 0148016 | RES.WIRE WOUND 2W 0.22 OHM CEMENTED |
| R909 | 0790035R | RES.CHIP 1/16W 680 OHM |
| R910 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| R912 | 0100069M | RES.-CARBON FLM 1/8W 1.5K-JB |
| R913 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R915 | 0144176 | METAL WIRE RESISTOR (100OHM 3W ) |
| R928 | AT03897M | 100KOHM 1/2W RDS50 CARBON FILM RESISTOR |
| R930 | 0188091M | RDL-1R0J1-02LT |
| R931 | 0188093M | ES.-CARBON FLM 1/2W 1.5-J |
| R932 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R933 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R934 | 0790032R | RES.CHIP 1/16W 390 OHM |
| R935 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R936 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R937 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R939 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R940 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R941 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R942 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R943 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R944 | 0790049R | RES.CHIP 1/16W 8.2K OHM |
| R945 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| R946 | 0100107M | RES.-CARBON FLM 1/8W 56K-JB |
| R947 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R948 | 0790049R | RES.CHIP 1/16W 8.2K OHM |
| R949 | 0790045R | RES.CHIP 1/16W 3.9K OHM |
| R950 | 0196075R | RES 1608 CHIP 1/16W 2.0KJ TAPE |
| R951 | 0790042R | RES.CHIP 1/16W 2.2K OHM |
| R952 | 0790055R | RES.CHIP 1/16W 22K OHM |
| R953 | 0790055R | RES.CHIP 1/16W 22K OHM |
| R954 | 0113739M | RES.-CARBON FLM 1/2W 390-JB |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| R956 | 0790019R | RES.CHIP 1/16W 47 OHM |
| R957 | AQ00183R | RES.CHIP 1/16W 390 OHM TAPE |
| R958 | AQ00185R | RES.CHIP 1/16W 470 OHM TAPE |
| R959 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R960 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R961 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R963 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R964 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R969 | 0790019R | RES.CHIP 1/16W 47 OHM |
| R976 | AQ00203R | RES.CHIP 1/16W 2.2K OHM TAPE |
| R977 | AQ00185R | RES.CHIP 1/16W 470 OHM TAPE |
| R979 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R980 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R984 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R986 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R991 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R992 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R993 | 0790051R | RES.CHIP 1/16W 10K OHM |
| | | **SWITCH** |
| ⚠ S901 | FJ00142 | RELAYALKS329 |
| | | **TRANSFORMER** |
| ⚠ T901 | BT02032 | PT-EE38F20J-AVC3TUBER |
| | | **MISCELLANEOUS** |
| EP02 | EF09604 | CONNECTOR CO-01T-N0R0-161 |
| EPG | EF09582 | CONNECTOR CO-01T-A0R0-700 |
| ⚠ H901 | CW00352 | UPM0518SA |
| ⚠ J901 | 2676371 | PLAG-AC INLET SK-1019 |
| PFP1 | EA01246R | 1.5MM PITCH 7P CONNECTOR BASE SM3 |
| PFP2 | EA01248R | 1.5MM PITCH 9P CONNECTOR BASE SM3 |
| PSP | ED04153U | B TO B PLUG 19P250K-1.25FJNA |
| | | **AVC51 FINAL (P# UQ33542)** |
| #0206 | PH31973 | AVC30 INDOOR PLATE |
| A21 | CS00721 | HCP131 ASS'Y |
| EANT | HP00771 | ANT SW |
| EFEM | 2979174 | PLUG WITH COAXIAL CABLE |
| EFES | 2979174 | PLUG WITH COAXIAL CABLE |
| EFP1 | EF22161 | 7P ZH CONNECTOR L=390MM |
| EFP2 | EF22171 | 9J ZH CONNECTOR L=390MM |
| EFS | 2908868 | CO-10C-C2R0-201 |
| EPP | EF08477 | CO-01T-T0R0-151(B) |
| ESC | 2908844 | CO-09C-C2R0-331 |
| ESF | EK01108 | PRW-SML2CD-50P-L700 |
| | | **AVC51 OWNER'S ASS'Y (P# UK06252)** |
| #010 | QJ01081 | AVC3 STAND ASS'Y |
| E001 | FQ00021 | DRY BATTERY(R6P-AA) |
| E100 | EW07193 | COE18+8P DVI MDIN 3M |
| E201 | EY01641 | PJX-IR BLASTER DP2X |
| E202 | EY01641 | PJX-IR BLASTER DP2X |
| E901 | EV01841 | POWER CORD 125V10A UL/CSA |
| N001 | QR55651 | HDT50 INSTRUCTION MANUAL |
| N213 | H463171 | QUICK R/C GUIDE 32/42/50HDT50 |

| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| U001 | HL01826 | RML-CLU-5726TSI |
| | | **PRO.ASS'Y 50HDT55M (P# LVA0360)** |
| #200B | QD35632 | 50HDT50 STAND 50STD3 |
| #210 | W181222 | W50 STAND ASSY |
| SPU | GM01233 | SPEAKER UNIT SPU50PT3 (S)USA |
| | | **PT3 50" SIGNAL/AUDIO PWB ASS'Y** |
| | | **CAPACITORS** |
| C001 | 0893113R | CAP 1608CHIP 10PFCCH 50V TAPE |
| C002 | 0893113R | CAP 1608CHIP 10PFCCH 50V TAPE |
| C003 | AA01802R | CCC103K50-B-16CT MCH18 |
| C004 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C005 | AA01802R | CCC103K50-B-16CT MCH18 |
| C008 | AA01802R | CCC103K50-B-16CT MCH18 |
| C010 | AA01802R | CCC103K50-B-16CT MCH18 |
| C011 | AA01802R | CCC103K50-B-16CT MCH18 |
| C012 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C015 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C016 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C201 | AA01814R | CCC333K50-B-16CT |
| C213 | AA01814R | CCC333K50-B-16CT |
| C214 | AD00416R | CEC101M06-EWCT |
| C215 | AA01814R | CCC333K50-B-16CT |
| C216 | AD00416R | CEC101M06-EWCT |
| C217 | AA01814R | CCC333K50-B-16CT |
| C218 | AA01814R | CCC333K50-B-16CT |
| C219 | AA01814R | CCC333K50-B-16CT |
| C220 | AA01814R | CCC333K50-B-16CT |
| C221 | AA01814R | CCC333K50-B-16CT |
| C222 | AA01814R | CCC333K50-B-16CT |
| C223 | AA01814R | CCC333K50-B-16CT |
| C224 | AA01814R | CCC333K50-B-16CT |
| C225 | AA01814R | CCC333K50-B-16CT |
| C226 | AA01814R | CCC333K50-B-16CT |
| C227 | AA01814R | CCC333K50-B-16CT |
| C228 | AA01814R | CCC333K50-B-16CT |
| C231 | AA01814R | CCC333K50-B-16CT |
| C256 | AA01814R | CCC333K50-B-16CT |
| C257 | AA01814R | CCC333K50-B-16CT |
| C258 | AA01814R | CCC333K50-B-16CT |
| C259 | AA01814R | CCC333K50-B-16CT |
| C260 | AA01814R | CCC333K50-B-16CT |
| C261 | AA01814R | CCC333K50-B-16CT |
| C262 | AA01814R | CCC333K50-B-16CT |
| C263 | AA01814R | CCC333K50-B-16CT |
| C264 | AA01814R | CCC333K50-B-16CT |
| C265 | AA01814R | CCC333K50-B-16CT |
| C266 | AA01814R | CCC333K50-B-16CT |
| C267 | AA01814R | CCC333K50-B-16CT |
| C268 | AA01814R | CCC333K50-B-16CT |
| C273 | AA01101R | CERAMIC CAPACITOR(1UF 10V-F) |
| C280 | 0893188R | CERAMIC CAPACITOR(47000PF 16V) |
| C401 | 0893135R | CAP 1608CHIP 470PFJCH 50V TAPE |
| C402 | 0893135R | CAP 1608CHIP 470PFJCH 50V TAPE |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| C403 | AD00447R | CEC4R7M25-EWCT | C467 | 0800361N | CAP.-ELECTRO 1000UF 16V |
| C404 | AD00447R | CEC4R7M25-EWCT | C468 | AA01101R | CERAMIC CAPACITOR(1UF 10V-F) |
| C405 | 0893211R | CAP 1608CHIP 1500PFKB 50V TAPE | C473 | AL01843R | 2200UF 10V ALUMINIUM ELECTROLYTIC CAP. |
| C406 | 0893211R | CAP 1608CHIP 1500PFKB 50V TAPE | C474 | AL01843R | 2200UF 10V ALUMINIUM ELECTROLYTIC CAP. |
| C407 | AA01121R | CERAMIC CAPACITOR(0.47UF 10V) | C475 | AL01843R | 2200UF 10V ALUMINIUM ELECTROLYTIC CAP. |
| C408 | AA01121R | CERAMIC CAPACITOR(0.47UF 10V) | C476 | AL01843R | 2200UF 10V ALUMINIUM ELECTROLYTIC CAP. |
| C409 | AD00478R | CEC4R7M50-EWCT | C482 | AD00439R | CEC470M16-EWCT |
| C410 | AD00478R | CEC4R7M50-EWCT | C483 | 0893095R | CAP.CHIP-CERAMIC 330000PF 16V TAPE |
| C411 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) | C484 | AL01851R | 2200UF 16V ALUMINIUM ELECTROLYTIC CAP. |
| C412 | AA01814R | CCC333K50-B-16CT | C600 | AA01814R | CCC333K50-B-16CT |
| C413 | AD00447R | CEC4R7M25-EWCT | C601 | AA01814R | CCC333K50-B-16CT |
| C414 | AD00447R | CEC4R7M25-EWCT | C602 | AA01802R | CCC103K50-B-16CT MCH18 |
| C415 | 0893129R | CAP 1608CHIP 180PFJCH 50V TAPE | C603 | AA01802R | CCC103K50-B-16CT MCH18 |
| C416 | 0893129R | CAP 1608CHIP 180PFJCH 50V TAPE | C604 | AA01802R | CCC103K50-B-16CT MCH18 |
| C417 | 0800344R | CAP.-ELECTRO. 330UF-M(SMG) 16V | C605 | AA01802R | CCC103K50-B-16CT MCH18 |
| C418 | AD00447R | CEC4R7M25-EWCT | C606 | AA01802R | CCC103K50-B-16CT MCH18 |
| C419 | AD00447R | CEC4R7M25-EWCT | C607 | AD00436R | CEC100M16-EWCT |
| C420 | AD00447R | CEC4R7M25-EWCT | C608 | AA01802R | CCC103K50-B-16CT MCH18 |
| C421 | AA01814R | CCC333K50-B-16CT | C609 | AD00436R | CEC100M16-EWCT |
| C422 | AA01814R | CCC333K50-B-16CT | C610 | AA01814R | CCC333K50-B-16CT |
| C423 | AA01814R | CCC333K50-B-16CT | C611 | AD00436R | CEC100M16-EWCT |
| C424 | AA01814R | CCC333K50-B-16CT | C612 | AA01814R | CCC333K50-B-16CT |
| C425 | AA01814R | CCC333K50-B-16CT | C613 | AA01814R | CCC333K50-B-16CT |
| C426 | AA01814R | CCC333K50-B-16CT | C614 | AA01814R | CCC333K50-B-16CT |
| C427 | AA01814R | CCC333K50-B-16CT | C615 | AA01814R | CCC333K50-B-16CT |
| C428 | AA01802R | CCC103K50-B-16CT MCH18 | C616 | AA01814R | CCC333K50-B-16CT |
| C429 | AD00475R | CEC010M50-EWCT | C627 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C430 | AD00436R | CEC100M16-EWCT | C628 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C431 | AD00436R | CEC100M16-EWCT | C629 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C432 | 0800344R | CAP.-ELECTRO. 330UF-M(SMG) 16V | C630 | AA01111R | CERAMIC CAPACITOR(1.0UF 6.3V) |
| C435 | AD00436R | CEC100M16-EWCT | C631 | AA01814R | CCC333K50-B-16CT |
| C436 | AD00478R | CEC4R7M50-EWCT | C632 | AA01814R | CCC333K50-B-16CT |
| C437 | AD00478R | CEC4R7M50-EWCT | CP01 | AL01857R | 470UF 25V ALUMINIUM ELECTROLYTIC CAP. |
| C438 | 0893127R | CAP 1608CHIP 120PFJCH 50V TAPE | CP02 | AL01833R | 1000UF 6.3V ALUMINIUM ELECTROLYTIC CAP. |
| C439 | 0893127R | CAP 1608CHIP 120PFJCH 50V TAPE | CP04 | AA00968R | CCC106M06-B-20CT (10UF 6.3V 2012M) |
| C440 | 0880207R | CAP.-POLYESTER 1.0UF-J 50V | CP09 | AD00416R | CEC101M06-EWCT |
| C441 | 0880207R | CAP.-POLYESTER 1.0UF-J 50V | CP10 | AD00416R | CEC101M06-EWCT |
| C442 | 0880207R | CAP.-POLYESTER 1.0UF-J 50V | | | |
| C443 | 0880207R | CAP.-POLYESTER 1.0UF-J 50V | | | **DIODES** |
| C444 | 0880198R | CAP.-PLOY. 0.22UF-J 50V | D001 | 2333121R | DIO-1S2835(T2B) |
| C445 | 0880198R | CAP.-PLOY. 0.22UF-J 50V | D003 | CC00003R | DIODE.CHIP 1SS355 |
| C446 | AD00436R | CEC100M16-EWCT | D201 | CC00331R | DIODE.CHIP RB751V-40 20V TAPE |
| C447 | AD00436R | CEC100M16-EWCT | D202 | CC00331R | DIODE.CHIP RB751V-40 20V TAPE |
| C452 | AA01814R | CCC333K50-B-16CT | D401 | CC00632R | DIODE.CHIP RB491D (20V) |
| C453 | AA01814R | CCC333K50-B-16CT | D402 | CC00632R | DIODE.CHIP RB491D (20V) |
| C454 | AD00475R | CEC010M50-EWCT | D403 | CC00632R | DIODE.CHIP RB491D (20V) |
| C455 | AA01814R | CCC333K50-B-16CT | D404 | CC00632R | DIODE.CHIP RB491D (20V) |
| C456 | AA01814R | CCC333K50-B-16CT | D405 | CC00003R | DIODE.CHIP 1SS355 |
| C457 | AA01814R | CCC333K50-B-16CT | D406 | CC00003R | DIODE.CHIP 1SS355 |
| C458 | AD00475R | CEC010M50-EWCT | D408 | CC00003R | DIODE.CHIP 1SS355 |
| C459 | AA01814R | CCC333K50-B-16CT | D409 | CC00003R | DIODE.CHIP 1SS355 |
| C460 | AA01814R | CCC333K50-B-16CT | D410 | CC00826R | ZENER.CHIP UDZ 7.5B |
| C461 | 0800353R | CAP.-ELECTRO.470UF-M 16V | D413 | CC00822R | ZENER.CHIP UDZ 5.1B |
| C462 | 0800353R | CAP.-ELECTRO.470UF-M 16V | D414 | CC00822R | ZENER.CHIP UDZ 5.1B |
| C463 | AD00439R | CEC470M16-EWCT | D416 | 2338944 | DIODE FML-G12S (F) (200V) |
| C464 | AA01814R | CCC333K50-B-16CT | D417 | 2338944 | DIODE FML-G12S (F) (200V) |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| D600 | CC10721R | DIODE CHIP DA204K-TPTX |
| D601 | CC10721R | DIODE CHIP DA204K-TPTX |
| D602 | CC10721R | DIODE CHIP DA204K-TPTX |
| D603 | CC10721R | DIODE CHIP DA204K-TPTX |
| D604 | CC10721R | DIODE CHIP DA204K-TPTX |
| D605 | CC10721R | DIODE CHIP DA204K-TPTX |
| D606 | CC10721R | DIODE CHIP DA204K-TPTX |
| D607 | CC10721R | DIODE CHIP DA204K-TPTX |
| D608 | CC10721R | DIODE CHIP DA204K-TPTX |
| D609 | CC10721R | DIODE CHIP DA204K-TPTX |
| D610 | CC00331R | DIODE.CHIP RB751V-40 20V TAPE |
| D611 | CC00331R | DIODE.CHIP RB751V-40 20V TAPE |
| DP01 | CC01661R | DIODE SFPJ-73 |
| | | |
| | | **INTEGRATED CIRCUITS** |
| I001 | CK06571U | DIGITAL MONOLITHIC IC (HD64F3397) |
| I002 | CK32542R | DIGITAL MONOLITHIC IC (M24C16-WMN6T) |
| I003 | CK37052R | ANALOG MONOLITHIC IC(BD4742G) |
| I201 | CK36981U | MN82860 |
| I202 | CK33543R | ANALOG MONOLITHIC IC(PST9227NR) |
| I205 | CK32661R | DIGITAL MONOLITHIC IC (HD74LVC244AT) |
| I230 | CK32661R | DIGITAL MONOLITHIC IC (HD74LVC244AT) |
| I231 | CK33431R | DIGITAL MONOLITHIC IC |
| I232 | CK33431R | DIGITAL MONOLITHIC IC |
| I233 | CK33431R | DIGITAL MONOLITHIC IC |
| I600 | CK37891U | DIGITAL MONOLITHIC IC (SII169) |
| I602 | CK04681R | DIGITAL MONOLITHIC IC (DS14C232CM) |
| I603 | CK37053R | RESET IC BD4727G |
| IC401 | CK35272R | IC NJW1133AM-TE1 |
| IC402 | CK35311R | NJM2192AM |
| IC403 | CK31991R | ANALOG MONOLITHIC IC BU4052BCF-E2 |
| IC404 | CP07681U | DIGITAL POWER IC(TA2020-020) |
| IC405 | CP05161F | ANALOG MONOLITHIC IC (SI-3120F) |
| IP02 | CK37162R | MONO IC SI-8033JD |
| | | |
| | | **COILS** |
| L202 | BA00707R | 3225 CHIP COIL 10UH |
| L203 | BA00707R | 3225 CHIP COIL 10UH |
| L204 | BA00707R | 3225 CHIP COIL 10UH |
| L205 | BM00278R | FILTER BLM18BB600SN1D |
| L401 | BH01811R | COIL 10UH 2.1A |
| L402 | BH01811R | COIL 10UH 2.1A |
| L403 | BH01811R | COIL 10UH 2.1A |
| L404 | BH01811R | COIL 10UH 2.1A |
| L409 | BZ01421R | COIL FERRITE BEAD BL02RN1-R62T4 |
| L410 | BZ01421R | COIL FERRITE BEAD BL02RN1-R62T4 |
| L413 | BZ01421R | COIL FERRITE BEAD BL02RN1-R62T4 |
| L414 | BZ01421R | COIL FERRITE BEAD BL02RN1-R62T4 |
| L600 | BA00712R | 3225 CHIP COIL 47UH |
| L601 | BA00712R | 3225 CHIP COIL 47UH |
| L602 | BA00712R | 3225 CHIP COIL 47UH |
| L603 | BA00712R | 3225 CHIP COIL 47UH |
| LP02 | BA00632R | C12-K4.5L SMD COIL 100UH |
| LP03 | 2125797N | FILT.COIL(LHL08 10UH) |
| LP04 | BA00712R | 3225 CHIP COIL 47UH |

| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| | | **TRANSISTORS** |
| Q001 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) |
| Q005 | 1323294R | TRS.CHIP 2SA1774 TL (R/S) |
| Q006 | 1323294R | TRS.CHIP 2SA1774 TL (R/S) |
| Q201 | CA01011R | TRS.CHIP 2SK3018 |
| Q202 | CA01011R | TRS.CHIP 2SK3018 |
| Q401 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) |
| Q402 | 1323293R | TRS.CHIP 2SC4617 TL (R/S) |
| Q403 | CA00981R | TRS.CHIP DTC114EE TL |
| Q404 | CA00771R | TRS.CHIP DTC323TK |
| Q405 | CA00771R | TRS.CHIP DTC323TK |
| Q406 | CA00981R | TRS.CHIP DTC114EE TL |
| Q407 | CA00771R | TRS.CHIP DTC323TK |
| Q408 | CA00981R | TRS.CHIP DTC114EE TL |
| Q600 | CA01011R | TRS.CHIP 2SK3018 |
| Q601 | CA01011R | TRS.CHIP 2SK3018 |
| Q602 | 1323392 | TRS.CHIP UMX1N |
| | | |
| | | **RESISTORS** |
| R001 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R002 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R004 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R005 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R006 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R007 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R008 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R009 | 0790037R | RES.CHIP 1/16W 1.0K OHM |
| R014 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R015 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R016 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R017 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R018 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R019 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R020 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R022 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R023 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R024 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R025 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R027 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R028 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R029 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R030 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R032 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R035 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R036 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R039 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R041 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R042 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R043 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R046 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R047 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R048 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R053 | AQ00024R | RES.CHIP 1/16W 100 OHM (4 R) |
| R054 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R055 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R059 | 0790045R | RES.CHIP 1/16W 3.9K OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R063 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R229 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R064 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R230 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R065 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R231 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R066 | 0790024R | RES.CHIP 1/16W 100 OHM | R232 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R067 | 0790024R | RES.CHIP 1/16W 100 OHM | R233 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R068 | 0790024R | RES.CHIP 1/16W 100 OHM | R234 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R069 | 0790024R | RES.CHIP 1/16W 100 OHM | R235 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R075 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R236 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R076 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R237 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R077 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R238 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R078 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R239 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R079 | 0790057R | RES.CHIP 1/16W 33K OHM | R240 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R080 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R241 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R081 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R242 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R083 | 0790024R | RES.CHIP 1/16W 100 OHM | R243 | AQ00001R | RES.CHIP 1/16W 0 OHM |
| R084 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R244 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R085 | 0790024R | RES.CHIP 1/16W 100 OHM | R245 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R087 | 0790028R | RES.CHIP 1/16W 220 OHM | R247 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R092 | 0790042R | RES.CHIP 1/16W 2.2K OHM | R250 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R093 | 0790042R | RES.CHIP 1/16W 2.2K OHM | R251 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R094 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R254 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R095 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R255 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R096 | 0790034R | RES.CHIP 1/16W 560 OHM | R256 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R097 | 0790035R | RES.CHIP 1/16W 680 OHM | R257 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R098 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R258 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R099 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R259 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0A1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R260 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0A6 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R261 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0A8 | 0790024R | RES.CHIP 1/16W 100 OHM | R262 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0A9 | 0790051R | RES.CHIP 1/16W 10K OHM | R263 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0B4 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R264 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0B5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R265 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0C7 | 0790051R | RES.CHIP 1/16W 10K OHM | R266 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0C8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R267 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0C9 | 0790045R | RES.CHIP 1/16W 3.9K OHM | R268 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R0E2 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R281 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R0E3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R282 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R0E4 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R283 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R0E8 | 0790051R | RES.CHIP 1/16W 10K OHM | R284 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R0F1 | 0790051R | RES.CHIP 1/16W 10K OHM | R285 | 0790021R | RES.CHIP 1/16W 56 OHM |
| R201 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R286 | 0790021R | RES.CHIP 1/16W 56 OHM |
| R202 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R287 | 0790021R | RES.CHIP 1/16W 56 OHM |
| R203 | 0790024R | RES.CHIP 1/16W 100 OHM | R288 | 0790021R | RES.CHIP 1/16W 56 OHM |
| R204 | 0790024R | RES.CHIP 1/16W 100 OHM | R289 | 0790021R | RES.CHIP 1/16W 56 OHM |
| R205 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R290 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R206 | 0790046R | RES.CHIP 1/16W 4.7K OHM | R291 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R207 | 0790051R | RES.CHIP 1/16W 10K OHM | R292 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R208 | 0790051R | RES.CHIP 1/16W 10K OHM | R293 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R209 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R294 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R213 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R295 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R214 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R296 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R216 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R297 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R218 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R298 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R219 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R299 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R222 | 0790033R | RES.CHIP 1/16W 470 OHM | R2A0 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R228 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R2A1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION | SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|---|---|---|
| R2A9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R443 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2C1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R446 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2C2 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R447 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R2C3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R448 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| R2C4 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R458 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2C5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R459 | 0790047R | RES.CHIP 1/16W 5.6K OHM |
| R2C6 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R460 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R2C7 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R461 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2C8 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R462 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2C9 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R463 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2E1 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R468 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2E2 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R469 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R2E3 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R600 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R2E5 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R602 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R401 | 0790028R | RES.CHIP 1/16W 220 OHM | R603 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R402 | 0790028R | RES.CHIP 1/16W 220 OHM | R604 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R403 | 0790068R | RES.CHIP 1/16W 220K OHM | R605 | 0790017R | RES.CHIP 1/16W 33 OHM |
| R404 | 0790068R | RES.CHIP 1/16W 220K OHM | R606 | 0790032R | RES.CHIP 1/16W 390 OHM |
| R405 | 0790024R | RES.CHIP 1/16W 100 OHM | R607 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R406 | 0790024R | RES.CHIP 1/16W 100 OHM | R609 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R407 | 0790061R | RES.CHIP 1/16W 56K OHM | R610 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R408 | 0196096R | RES.-1608CHIP 1/16W 13K-J TAPE | R612 | 0790057R | RES.CHIP 1/16W 33K OHM |
| R409 | 0196123R | RES.-1608CHIP 1/16W 160K-J TAPE | R613 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R410 | 0196106R | RES 1608 CHIP 1/16W 36KJ TAPE | R614 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R411 | 0196091R | RES.-1608CHIP 1/16W 9.1K-J TAPE | R615 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R412 | 0196119R | RES.-1608CHIP 1/16W 110K-J TAPE | R616 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R413 | 0790051R | RES.CHIP 1/16W 10K OHM | R617 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R414 | 0790036R | RES.CHIP 1/16W 820 OHM | R618 | AQ00017R | RES.CHIP 1/16W 33 OHM (4 R) |
| R415 | 0790036R | RES.CHIP 1/16W 820 OHM | R619 | 0790044R | RES.CHIP 1/16W 3.3K OHM |
| R416 | 0196077R | RES.-1608CHIP 1/16W 2.4K-J TAPE | R620 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R417 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R621 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R418 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R622 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R419 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R625 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R420 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R626 | 0790024R | RES.CHIP 1/16W 100 OHM |
| R421 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R627 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R422 | 0790047R | RES.CHIP 1/16W 5.6K OHM | R628 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R423 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R629 | 0790059R | RES.CHIP 1/16W 47K OHM |
| R424 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R630 | 0790046R | RES.CHIP 1/16W 4.7K OHM |
| R425 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R631 | 0790051R | RES.CHIP 1/16W 10K OHM |
| R426 | 0790037R | RES.CHIP 1/16W 1.0K OHM | R636 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R427 | 0196098R | RES.-1608CHIP 1/16W 16K-J TAPE | R637 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R428 | 0196098R | RES.-1608CHIP 1/16W 16K-J TAPE | R638 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R429 | 0196108R | RES.-1608CHIP 1/16W 43K-J TAPE | R639 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R430 | 0196108R | RES.-1608CHIP 1/16W 43K-J TAPE | R640 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R431 | 0113701M | RESISTOR CARBON FILM SRD1/2P-B 10-J | R641 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R432 | 0113701M | RESISTOR CARBON FILM SRD1/2P-B 10-J | R642 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R433 | 0790051R | RES.CHIP 1/16W 10K OHM | R643 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R434 | 0790051R | RES.CHIP 1/16W 10K OHM | R644 | 0790031R | RES.CHIP 1/16W 330 OHM |
| R435 | 0790042R | RES.CHIP 1/16W 2.2K OHM | R645 | 0790031R | RES.CHIP 1/16W 330 OHM |
| R436 | 0790064R | RES.CHIP 1/16W 100K OHM | R646 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R437 | 0790024R | RES.CHIP 1/16W 100 OHM | R648 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 |
| R438 | 0790059R | RES.CHIP 1/16W 47K OHM | R654 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R439 | 0790049R | RES.CHIP 1/16W 8.2K OHM | R655 | 0790028R | RES.CHIP 1/16W 220 OHM |
| R440 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R656 | 0790057R | RES.CHIP 1/16W 33K OHM |
| R441 | 0790001R | CHIP RESISTOR RECJUMPER-1-16C16T1608 | R657 | 0790057R | RES.CHIP 1/16W 33K OHM |
| R442 | 0790052R | RES.CHIP 1/16W 12K OHM | RP09 | 0790025R | RES.CHIP 1/16W 120 OHM |

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| SYMBOL NO. | PART NO. | PART DESCRIPTION |
|---|---|---|
| RY401 | FJ00291 | RELAY DQ1SU |
| RY402 | FJ00291 | RELAY DQ1SU |
| | | |
| | | **SWITCH** |
| S001 | 2632971 | TACT SWITCH SKHH |
| | | |
| | | **TRANSFORMERS** |
| TP101 | EA00002R | CHECKER CHIP 2125 TAPING |
| TP102 | EA00002R | CHECKER CHIP 2125 TAPING |
| | | |
| | | **CRYSTAL** |
| X001 | BE00391R | SMD LC FILTER MEA3216L50R0 |
| X002 | BL00291R | OSCILLATOR (SMD-49) |
| X600 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| X601 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| X602 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| X603 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| X604 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| X605 | BK00191R | CHIP CERAMIC FILTER NFL21SP506X1C3D |
| | | |
| | | **MISCELLANEOUS** |
| J401 | 2672967 | JAK-YKC21-1P-BLK |
| J601 | ED03473 | CP-24BP1R9H^DVI-D |
| J602 | EY01491 | SOCKET YKF51-5376 |
| PAS1 | 2902261 | PLUG PIN SUB MINI 2P |
| PAS2 | 2902262R | PLUG 03P EH TAPE |
| PDA1 | EA01252R | 1.5MM PITCH 12P CONNECTOR BASE SM3 |
| PDS1 | ED02688 | CONNECTOR HEADER FX2BA-100PA-1.27DSAL |
| PDS2 | ED00394 | PLUG 14P LOCK 2.5MM JST |
| PDS3 | ED00389 | PLUG 10P WITH LOCK |
| PMW | 2902246 | PLUG PIN SUB MINI 7P |
| PSC1 | EA00343R | CONNECTOR CPC04PH2R0VTPH-SM3 |
| PSC2 | EA00342R | CONNECTOR CPC03PH2R0VTPH-SM3 |
| PSU | 2902264R | PLUG 05P EH TAPE |
| | | |
| | | **PT3 50" FILTER PWB ASS'Y** |
| | | |
| | | **CAPACITORS** |
| C001 | 0800324R | CAP.-ELECTRO. 100UF-M(SMG) 6.3V |
| C002 | 0890087R | CAP.-CERAMIC 1000PF-K 50V |
| ⚠C903 | AN01447S | ACROSS CAPA 0.47UF 250V RE474 |
| C920 | AL00062R | ALUMINIUM ELECTROLYTIC CAP.(22UF450V ) |
| C921 | AL00062R | ALUMINIUM ELECTROLYTIC CAP.(22UF450V ) |
| C924 | 0800282R | CAP.-ELECTORO. 2.2UF-M(SMG) 50V |
| C930 | 0800353R | CAP.-ELECTRO.470UF-M 16V |
| C931 | 0800345R | CAP.-ELECTRO. 330UF-M(SMG) 25V |
| C932 | 0800291R | CAP.-ELECTRO. 10UF-M(SMG) 16V |
| | | |
| | | **DIODES** |
| D001 | 2343561 | LED SPR-54MVW |
| | | |
| ⚠D901 | CH00051 | DIODE SD-S1WB(A)60B (600V) |
| D922 | CH00151M | DIODE DSM1SD2(200V)TAPE |
| D923 | CH00151M | DIODE DSM1SD2(200V)TAPE |
| | | |
| | | **FUSE** |
| ⚠F902 | FN00439 | HT FUSE 250V 6.3A 5.2X20MM |
| | | |
| | | **UNITS** |
| H001 | CZ00641 | GP1U281Q |
| ⚠H920 | CW00352 | UPM0518SA |
| | | |
| | | **INTEGRATED CIRCUIT** |
| ⚠I920 | CP05431 | ANALOG MONOLITHIC IC (TLP621F D4-GRL) |
| | | |
| | | **COILS** |
| L481 | BZ05521 | DC COM. MODE CHOKE COIL 7UH 2A |
| L482 | BZ05521 | DC COM. MODE CHOKE COIL 7UH 2A |
| L920 | 2125806N | FILT.COIL(LHL08 47UH) |
| L930 | 2125806N | FILT.COIL(LHL08 47UH) |
| | | |
| | | **TRANSISTORS** |
| Q920 | 2326811R | TRANSISTOR 2SC3468 (E/F) |
| Q930 | 2325721M | TRS. 2SC1740S (Q/R/S/E) TAPE |
| | | |
| | | **RESISTORS** |
| R001 | 0700038M | RES.-CARBON FLM 1/16W 680-JB |
| R002 | 0700037M | RES.-CARBON FLM 1/16W 560-JB |
| R003 | 0700041M | RES.-CARBON FLM 1/16W 1.0K-JB |
| R902 | AT03672M | RES.MTL GRAZD FLM 1/2W 3.3M |
| R920 | AT02525R | METAL OXIDE RESISTOR (100OHM 3W ) |
| R921 | 0188162M | RES.-CARBON FLM 220K-JB 1/2W |
| R922 | 0188153M | RES.-CARBON FLM 1/2W 47K-JB |
| R923 | 0188153M | RES.-CARBON FLM 1/2W 47K-JB |
| R924 | 0100089M | RES.-CARBON FLM 1/8W 10K-JB |
| R925 | 0100089M | RES.-CARBON FLM 1/8W 10K-JB |
| R930 | 0188091M | RDL-1R0J1-02LT |
| R931 | 0188091M | RDL-1R0J1-02LT |
| R932 | 0188091M | RDL-1R0J1-02LT |
| R933 | 0700041M | RES.-CARBON FLM 1/16W 1.0K-JB |
| R934 | 0700041M | RES.-CARBON FLM 1/16W 1.0K-JB |
| | | |
| | | **SWITCH** |
| ⚠S900 | 2634732 | MAINS SWITCH |
| | | |
| | | **MISCELLANEOUS** |
| EPU2 | EF21891 | CONNECTOR |
| JA402 | ER00061 | JACK SP TERMINAL |
| JA403 | ER00061 | JACK SP TERMINAL |
| PAS3 | 2902261 | PLUG PIN SUB MINI 2P |
| PAS4 | 2902262 | PLUG PIN SUB MINI 3P |
| PPU1 | 2674281 | 3P B-PLUG PIN |
| PPU2 | ED02801 | 2P PLUG PIN |
| PSC1 | 2959053 | 5P POST PIN 4P TYPE PH |
| PSC2 | 2959052 | PIN POST (PH 3P) |
| PSU | 2902264 | PLUG PIN SUB MINI 5P |
| PSW1 | ED02811 | 8P VH PLUG PIN |
| PSW2 | ED02734 | 8P(4P) VH-PLUG |
| #081 | QD35351 | W50 BEZEL |
| #083 | PH32321 | W50 LENS R |
| #084 | PH32331 | W50 LENS L |
| #085 | PU00723 | HITACHI BADGE PD42 |
| #087 | MS00794 | HIMERON 210-7-0.8 |
| #088 | MS00795 | HIMERON 210-14-0.8 |
| #089 | NX08861 | CUSION W50 |
| #090 | PC05621 | SW KNOB |
| #091 | QD35542 | SW COVER W50 |
| #100 | QA02731 | W50 COVER |
| #105 | PM25373 | BOTTOM COVAR HDT |
| #210 | W181222 | W50 STAND ASSEMBLY |
| A | DD00572 | FLTPDU-50WX2A |
| E901 | EP00332 | PJDSUP-C14306-F |
| E902 | EF22722 | CO-01T-N0R0-131-SRT |
| EAS1 | 2973678S | CO-02C-C2R5-471 |
| EAS2 | 2973701S | CO-03C-C2R5-241 |
| EDS1 | EF22761 | CO-100C-C1R2-101-FX2 |
| EDS2 | EF09713 | CO-14C-C2R5-221LOCK |
| EDS3 | EF03282 | CO-10C-C2R5-221LOCK |
| EPU1 | EF22651 | CO-03C-C3R9-201VH-EL |
| EPU2 | EF21374 | CO-02C-N110-800-VT |
| ESC1 | EF22631 | CO-04C-C2R0-681-TUBE |
| ESC2 | 2908676 | CO-03C-C2R0-911 |
| ESU | 2973767S | CO-05C-C2R5-431 |
| ESW | EF22641 | CO-08C-C3R9-201N2357 |
| SPU | GM01232 | SPU50PT3 |
| | | |
| | | **50HDT50M/55M OWNER ASS'Y** |
| E01 | EV01861 | COD-125V12A UL/CSA S |

# QUICK REFERENCE PARTS LIST
# AVC IC'S & UNITS

| No. | Cir.No. | P# | Description | Function | PWB ASSY | Remarks |
|---|---|---|---|---|---|---|
| 1 | H901 | CW00352 | UPM0518SA | SWITCHING REGULATOR | POWER | |
| 2 | I901 | CZ00869 | STR-F6668B(LF1351) | SWITCHING REGULATOR | POWER | |
| 3 | I902 | CP07851 | TLP421 | OPT.ISOLATOR | POWER | |
| 4 | I905 | CP07851 | TLP421 | OPT.ISOLATOR | POWER | |
| 5 | I930 | CK37171R | SPI-8010A | +5.5V REGULATOR | POWER | |
| 6 | I931 | CP08111U | SI-8010GL | +1.8V REGULATOR | POWER | |
| 7 | I932 | CK37194R | SI-3050LSA-TL | +5.0V REGULATOR | POWER | |
| 8 | I933 | CK37162R | SI-8033JD | +3.3V REGULATOR | POWER | |
| 9 | DM01 | CH02031R | SPR-505MVW | LED | CONTROL | |
| 10 | DM02 | CH02721 | PNZ313B | I/R Receiver | CONTROL | |
| 11 | HM01 | CZ01091 | GP1UA261XK | I/R Receiver | CONTROL | |
| 12 | I001 | CK38641U | M306V7FHFP-FLASH | TV u-com | AV | |
| 13 | I002 | CK37051R | BD4729G-TR | RESET IC | AV | |
| 14 | I003 | CK35894R | CAT24WC32J1 | EEPROM | AV | |
| 15 | I004 | CK31992R | BU4053BCF-E2 | OSD/FLASH SELECTOR | AV | |
| 16 | I201 | CK31992R | BU4053BCF-E2 | CCD SELECTOR | AV | |
| 17 | I202 | CK37412U/22U | S3*80F9XKN-QZR7 | IR-BLASTER | AV | |
| 18 | I203 | CK32271R | MC74VHCT244ADTR2 | OCTAL BUS BUFFER | AV | |
| 19 | I204 | CK31992R | BU4053BCF-E2 | BLASTER/ R/C SELECTOR | AV | |
| 20 | I206 | CK32271R | MC74VHCT244ADTR2 | OCTAL BUS BUFFER | AV | |
| 21 | I207 | CK01172R | HD74HC221FPEL | H-SYNC PHASE SHIFT | AV | |
| 22 | I208 | CK35893R | CAT24WC16J1 | EEPROM | AV | |
| 23 | I401 | CK31991R | BU4052BCF-E2 | AUDIO SELECTOR | AV | |
| 24 | I402 | CP02601 | AN5285K | PERFECT VOL. | AV | |
| 25 | I403 | CK31031R | BA3530FS-E2 | HEAD PHONE AMP. | AV | |
| 26 | I904 | CK37212R | TK11125CSCL | +2.5V REGULATOR | AV | |
| 27 | I905 | CK37194R | SI-3050LSA-TL | +5.0V REGULATOR | AV | |
| 28 | I906 | CK37194R | SI-3050LSA-TL | +5.0V REGULATOR | AV | |
| 29 | I907 | CK38377R | SI-3090KM | +9.0V REGULATOR | AV | |
| 30 | I908 | CK38377R | SI-3090KM | +9.0V REGULATOR | AV | |
| 31 | I909 | CK38377R | SI-3090KM | +9.0V REGULATOR | AV | |
| 32 | I910 | CK37193R | SI-3033LSA-TL | +3.3V REGULATOR | AV | |
| 33 | IJ01 | CK35163R | SII907BCQ52 | DVI(TMDS) RECEIVER | AV | |
| 34 | IJ02 | CK37051R | BD4729G-TR | RESET IC | AV | |
| 35 | IJ03 | CA01301R | NDC7002N | BUS LEVEL CHANGE | AV | |
| 36 | IJ04 | CP05273U | M24C02-BN6 | EEPROM for DDC | AV | |
| 37 | IJ05 | CK37194R | SI-3050LSA-TL | +5.0V REGULATOR | AV | |
| 38 | IJ06 | CK37193R | SI-3033LSA-TL | +3.3V REGULATOR | AV | |
| 39 | IM01 | CK38791R | NJM2137V | Amplifier | CONTROL | |
| 40 | IV01 | CK07631R | TC90A45F | 2L COMB. For SUB | AV | |
| 41 | IW01 | CK36951U | UPD64083GF-3BA | 3D Y/C SEP. | AV | |
| 42 | IW02 | CK06097R | PST9127NR | RESET IC | AV | |
| 43 | IX01 | CK30941U | CXA2069Q | A/V SELECTOR | AV | |
| 44 | IX02 | CK34811U | MM1519XQ | YPbPr SELECTOR | AV | |
| 45 | IX03 | CK38101R | NJM2584M(TE1) | YPbPr SELECTOR | AV | |
| 46 | IZ01 | CK38721R | TA1383FG | SUB VIDEO/CHROMA | AV | |
| 47 | IZ02 | CK38721R | TA1383FG | MAIN VIDEO/CHROMA | AV | |
| 48 | IZ03 | CK31041R | TA1287F(EL) | MAIN CCD MIXER | AV | |
| 49 | IZ04 | CK38101R | NJM2584M(TE1) | YPbPr SELECTOR | AV | |
| 50 | IZ05 | CK31041R | TA1287F(EL) | SUB CCD MIXER | AV | |
| 51 | IZ06 | CK31992R | BU4053BCF-E2 | M/S CCD SYNC SELECTOR | AV | |
| 52 | U101 | HC00512 | F-E-ENGE6106DR | 1st Tuner | AV | |
| 53 | U102 | HC00463 | F-E-ENG36614GR | 2nd Tuner | AV | |
| 54 | A21 | CS00721 | HCP131 ASS'Y | Flex Controller | AVC FINAL | |
| 55 | EANT | HP00771 | UNX ANT SW | ANT SW BOX | AVC FINAL | |



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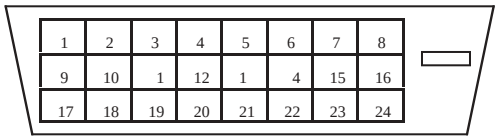
## Function of Digital Interface

(1) Specification of TMDS connector (24P DVI-D)

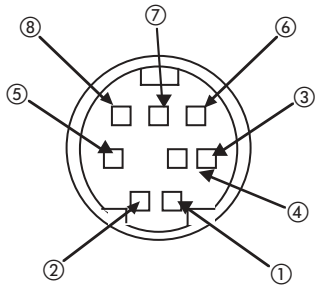
| No. | Signal name | Function | Remarks |
|---|---|---|---|
| 1 | T X 2 - | Difference data | AVC→PDP |
| 2 | T X 2 + | Difference data | AVC→PDP |
| 3 | T X 2 Shield | Shield ground | GND |
| 4 | NC | | |
| 5 | NC | | |
| 6 | SCLH | PDP u-con clock | PDP→AVC |
| 7 | SDAH | PDP u-con data | PDP→AVC |
| 8 | NC | | |
| 9 | T X 1 - | Difference data | AVC→PDP |
| 10 | T X 1 + | Diference data | AVC→PDP |
| 11 | T X 1 Shield | Shield ground | GND |
| 12 | NC | | |
| 13 | NC | | |
| 14 | AVDET | AVC Voltage det. | AVC→PDP |
| 15 | GND | | |
| 16 | HPDET | Conn. Connection det. | PDP→AVC |
| 17 | T X 0 - | Difference data | AVC→PDP |
| 18 | T X 0 + | Difference data | AVC→PDP |
| 19 | T X 0 Shield | Shield ground | GND |
| 20 | NC | | |
| 21 | NC | | |
| 22 | T X C Shield | Shield ground | GND |
| 23 | T X C + | Difference clock | AVC→PDP |
| 24 | T X C - | Difference clock | AVC→PDP |
| | GND | GND | |




FRONT VIEW

(2) Sound/Control connector pin specification (8 pin DIN)

| No. | Signal name | Function | Remarks |
|---|---|---|---|
| 1 | TXDO | u-con data transp. | AVC→PDP |
| 2 | RXDO | u-con data trans. | PDP→AVC |
| 3 | PARITY | Field info. | AVC→PDP |
| 4 | REM PDP | PDP I/R Signal | PDP→AVC |
| 5 | AUDIO L | Audio L | AVC→PDP |
| 6 | AUDIO R | Audio R | AVC→PDP |
| 7 | PDDET | Detector PDP pow. | PDP→AVC |
| 8 | AVDET2 | Detector AVC pow. | AVC→PDP |
| frame | GND | GND | |

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